

UTAH DIVISION OF OIL GAS AND MINING

REMARKS WELL LOG— ELECTRIC LOGS— FILE X WATER SANDS— LOCATION INSPECTED— SUB. REPORT/ABD—

DATE FILED 1-7-80

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. U-25534

INDIAN

DRILLING APPROVED: 1-24-80

SPUDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LOCATION ABANDON WELL NEVER DRILLED 9-26-80

FIELD: Wildcat 3/8

UNIT:

COUNTY: Kane

WELL NO. USA-JOHN Yakushik #1

API NO: 43-025-30018

LOCATION 820' FT. FROM (N) XX LINE. 2140' FT. FROM (E) XX LINE. NW NE 1/4 - 1/4 SEC. 13

TWP. RGE. SEC. OPERATOR

TWP. RGE. SEC. OPERATOR

39S 1E 13 AMOCO PRODUCTION CO.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-25534
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401		8. FARM OR LEASE NAME USA-John Yakushik
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 820' FNL and 2140' FEL, Section 13, T39S, R1E At proposed prod. zone Same		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 17 miles Southeast of Henrieville, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 820'	16. NO. OF ACRES IN LEASE 2,560	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4, NE/4, Section 13 T39S, R1E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None	19. PROPOSED DEPTH 1994'	12. COUNTY OR PARISH Kane
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5753' Ungraded ground		13. STATE Utah
22. APPROX. DATE WORK WILL START* As-soon as permitted		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15-1/2"	13-3/8"	54.5#	300'	300 sx Class B Neat
12-1/4"	8-5/8"	32#	1994'	575 sx Class B 50:50 POZ
				100 sx Class B Neat

Amoco Production Company proposes to drill the above Wildcat well to a depth of 2000' to test the Christensen section and penetrate the Upper Straight Cliffs. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

This well is being drilled as a TITE HOLE and information is to be kept **CONFIDENTIAL**

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B. E. Jauch TITLE District Engineer DATE January 3, 1960

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

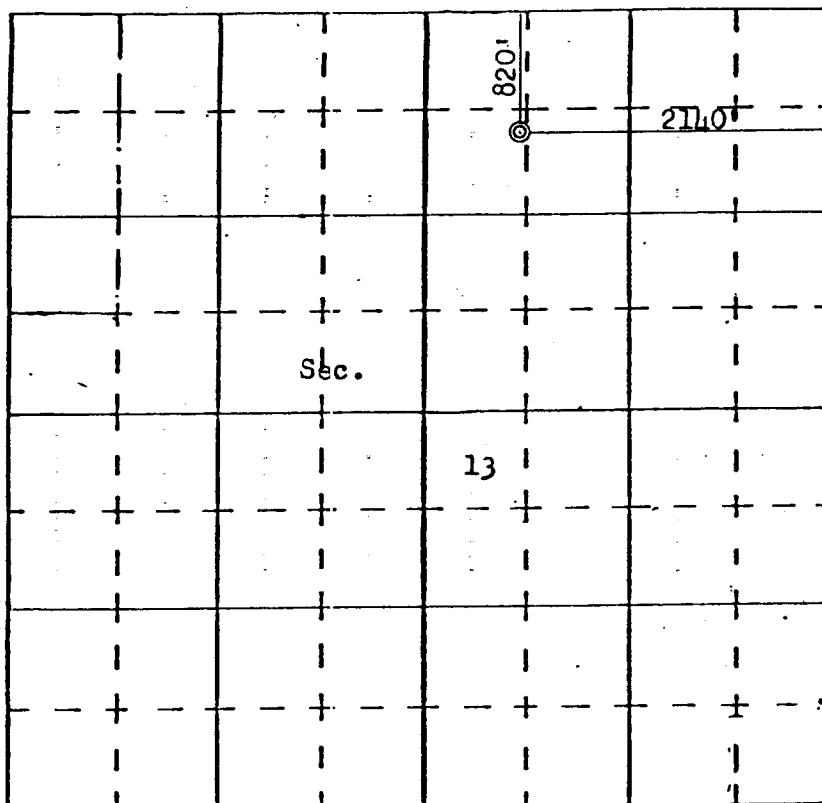
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA-JOHN YAKUSHIK WELL NO. 1

SEC. 13, T. 39S, R. 1E S.L.M.
KANE COUNTY, UTAH

LOCATION 820'FNL 211.0'FEL

ELEVATION 5753 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED December 11, 1979

FARMINGTON, N. M.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

The geologic name of the surface formation is the Upper Cretaceous Kaiporowits.

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Wahweep	994'	4772'
Alvex	1354'	4412'
Christensen	1744'	4022'
Upper Straight Cliffs	1844'	3922'
TD	1994'	

Estimated KB elevation: 5766'.

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include the following logs from TD to below surface casing:

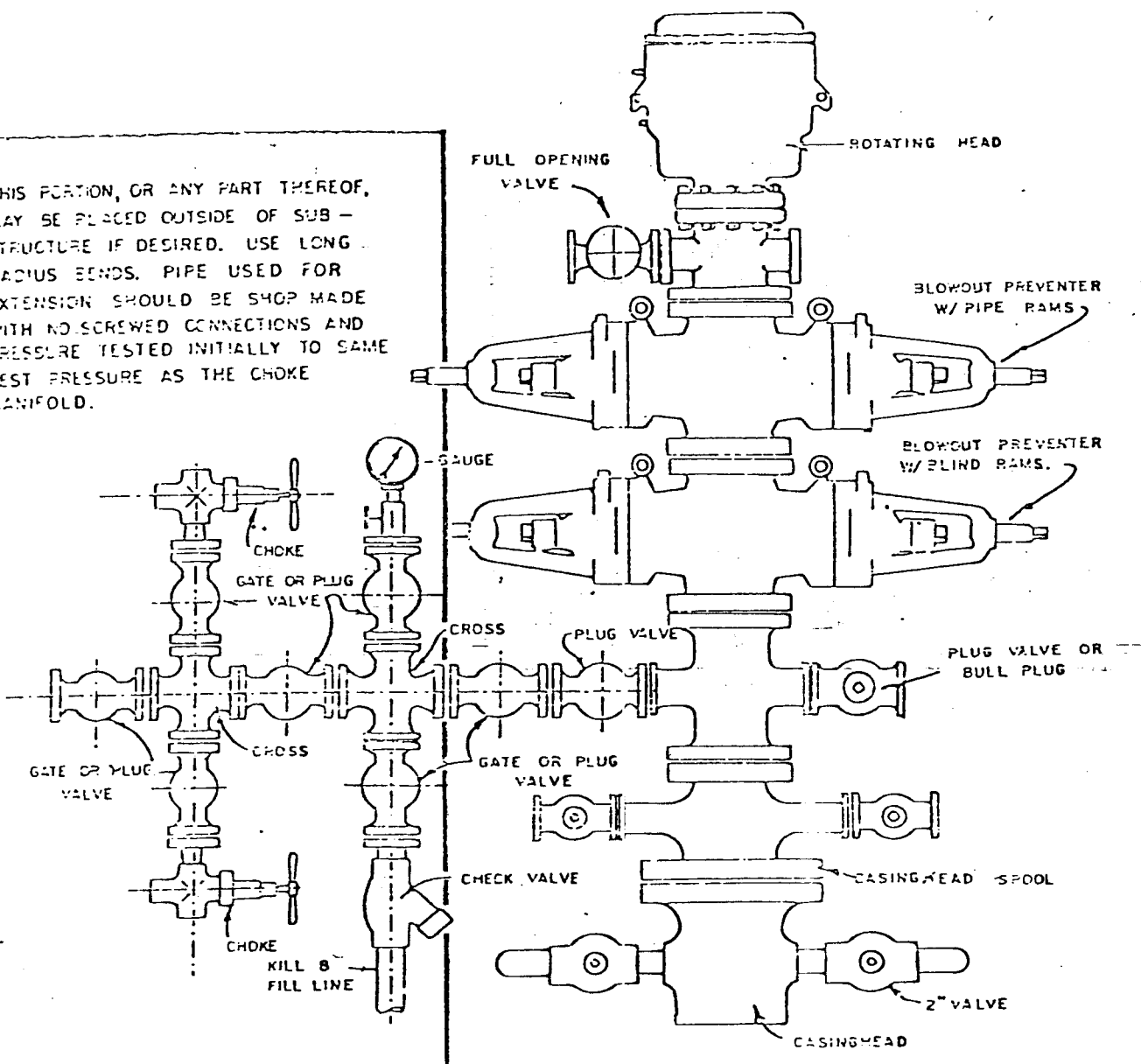
IES - GR - SP
CNL - DEN - GR

Completion design will be based on these logs. No drill stem tests will be taken. There will be one core in the Alvex formation and two cores in the Christensen formation. The exact intervals cored will be picked by the well site geologist.

Operations will commence when permitted and last approximately 6 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

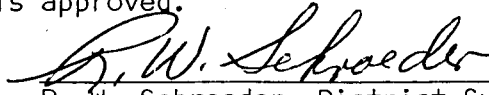
1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build approximately 250 feet of new road 20 feet wide.
3. There are no existing oil and gas wells within a two-mile radius of our proposed well.
4. There are no existing tank batteries or facilities located within a one-mile radius which are operated by Amoco.
5. There is a water hole approximately one mile east on an unknown wash; also, downstream approx. one-half mile this same wash has good possible supply of water by digging a sump hole. Also, 5.3 miles southeast of location on 4-Mile Branch there is a good supply of water that could be used by digging a sump hole and improving seven tenths mile of road. All above to be approved by Area State Water Engineer, Cedar City, Utah.
6. No construction materials will be hauled in for this location.
7. All waste materials will be stored in a reserve pit (75' X 125') to be fenced and left to dry up or hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and rig will be disposed of in holes in the ground and later filled and covered.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on south side.
10. Restoration of the surface will be accomplished by filling pits and leveling. Any location not used for production equipment and pits will be reseeded to Bureau of Land Management requirements.
11. The general topography is a rolling terrain with sandy clay soil; vegetation consists of sagebrush, cedar and pinon trees.

Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

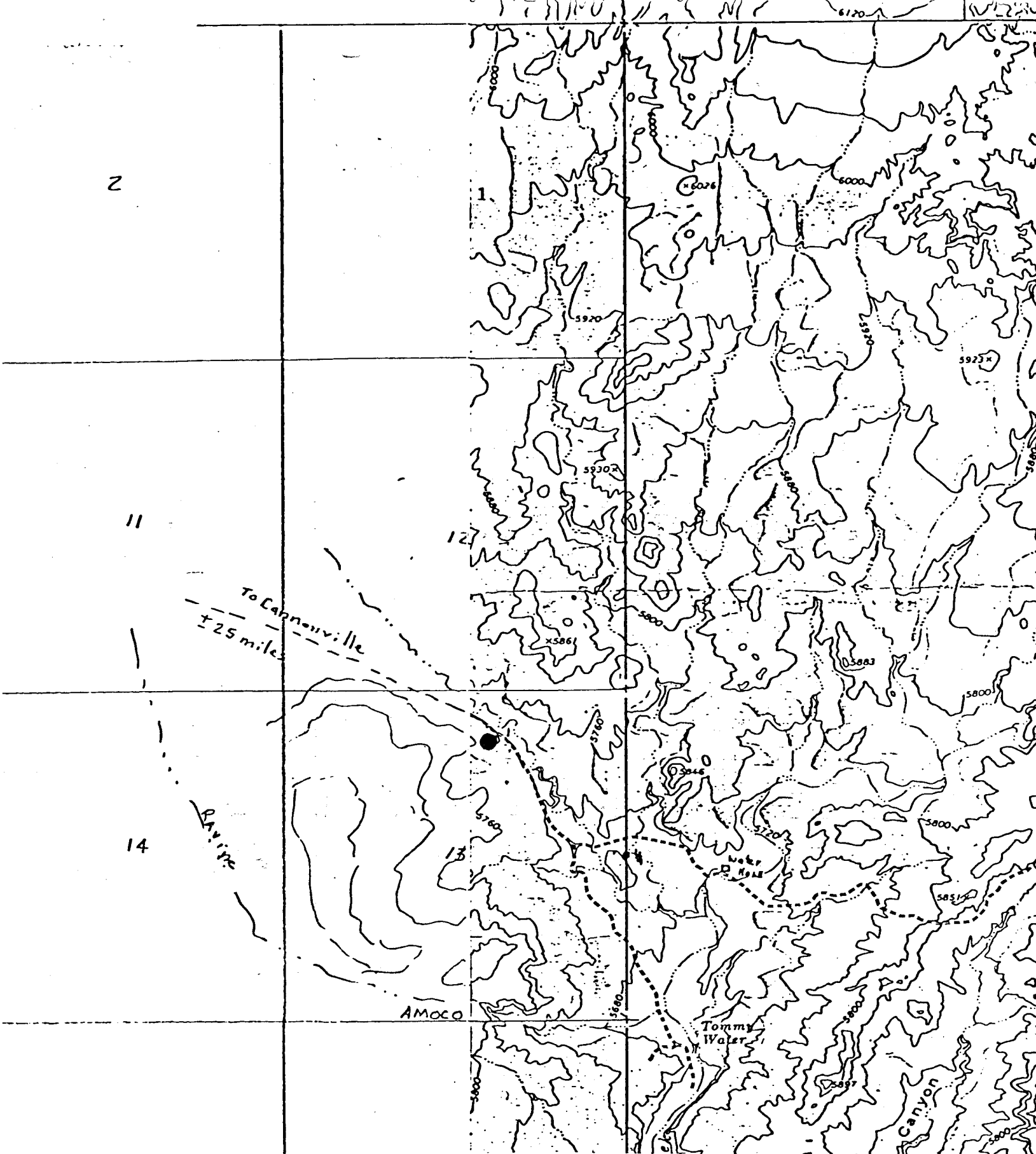
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date December 20, 1979

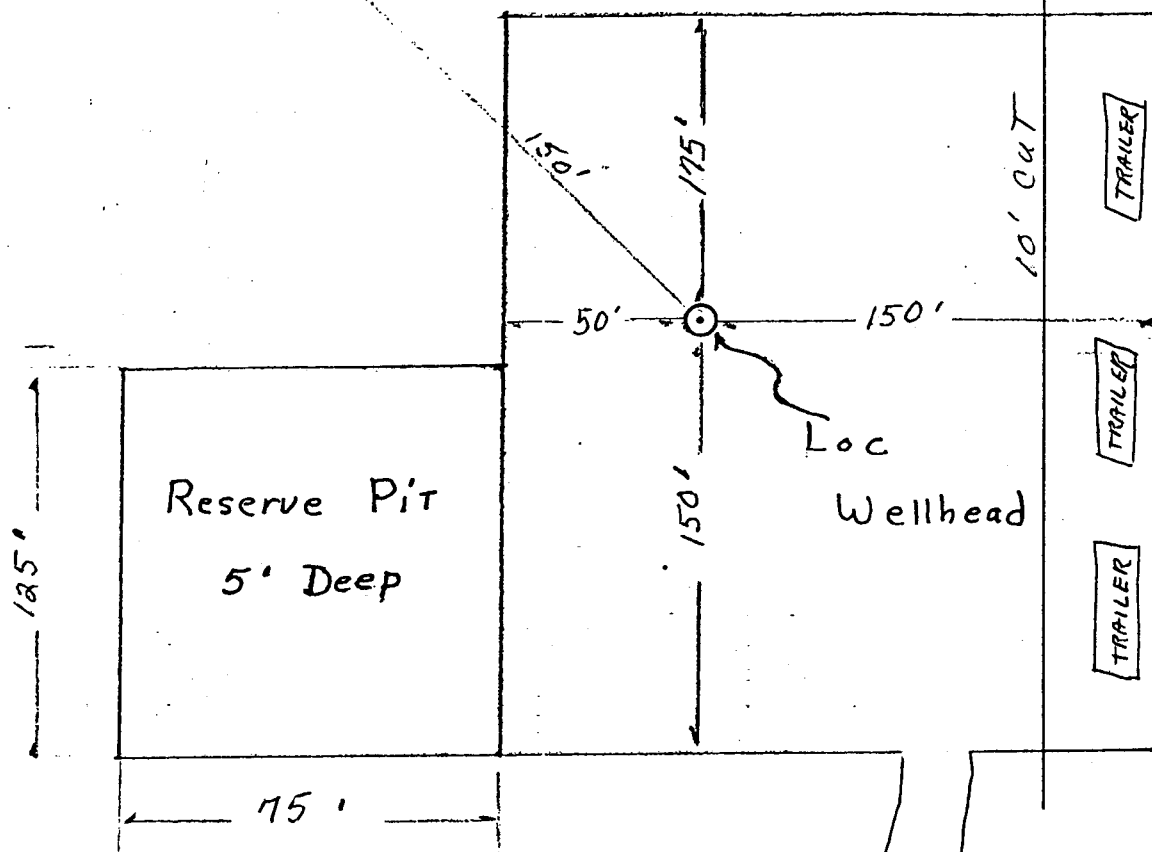
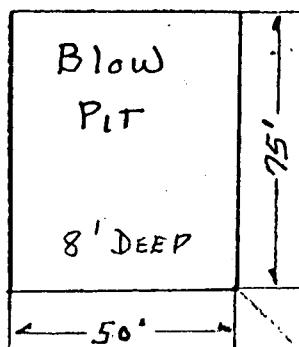


R. W. Schroeder, District Superintendent



Vicinity Map for
AMOCO PRODUCTION COMPANY #1 USA-JOHN YAKUSHIK
820'FNL 2140'FEL Sec 13-T39S-R1E
KANE COUNTY, UTAH

EXISTING ROAD



250' NEW ROAD

Approximately 1.2 Acres

Amoco Production Company	SCALE: None
Drilling Location Specs	
USA- JOHN YAKUSHIK NO. 1	DRG. NO.

CONFIDENTIAL

** FILE NOTATIONS **

DATE: January 9, 1980
OPERATOR: Amoco Production Company
WELL No. USA John Yakushik #1
LOCATION: SEC. 13 T. 39S R. 1E COUNTY Kane

FILE PREPARED: N
CARD INDEXED: N

ENTERED ON NID: N
COMPLETION SHEET: N

API NUMBER: 43-025-30018

CHECKED BY:

GEOLOGICAL ENGINEER: _____

PETROLEUM ENGINEER: _____

DIRECTOR: 7 OK

APPROVAL LETTER:

BOND REQUIRED: _____

SURVEY PLAT REQUIRED: _____

ORDER No. _____

O.K. RULE C-3 N

RULE C-3(c), TOPOGRAPHIC EXCEPTION/COMPANY OWNS OR CONTROLS ACREAGE
WITHIN A 660' RADIUS OF PROPOSED SITE _____

LEASE DESIGNATION fed PLOTTED ON MAP N

APPROVAL LETTER WRITTEN _____

Wm

#1

rl
PI

CONFIDENTIAL

January 24, 1980

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

Re: Well No. USA John Yakushik #1
Sec. 13, T. 39S, R. 1E.,
Kane County, Utah

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-Xg which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-025-30018

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/btm

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**CONFIDENTIAL**

LEASE DESIGNATION AND SERIAL NO.

25534

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER Wildcat

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

820' FNL and 2140' FEL, Section 13, T39S, R1E

NW NE

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

17 miles Southeast of Henrieville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

820'

16. NO. OF ACRES IN LEASE

2,560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

Wildcat

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

1994'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5753' Ungraded ground

22. APPROX. DATE WORK WILL START*

As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15-1/2"	13-3/8"	54.5#	300'	300 sx Class B Neat
12-1/4"	8-5/8"	32#	1994'	575 sx Class B 50:50 POZ
				100 sx Class B Neat

Amoco Production Company proposes to drill the above Wildcat well to a depth of 2000' to test the Christensen section and penetrate the Upper Straight Cliffs. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

This well is being drilled as a TITE HOLE and information is to be kept **CONFIDENTIAL**

CONFIDENTIAL**RECEIVED**

JAN 7 1980

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

B.E. Jackwell

TITLE

District Engineer

DATE

January 3, 1980

(This space for Federal or State office use)

PERMIT NO.

43-025-30018

APPROVAL DATE

1/24/80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

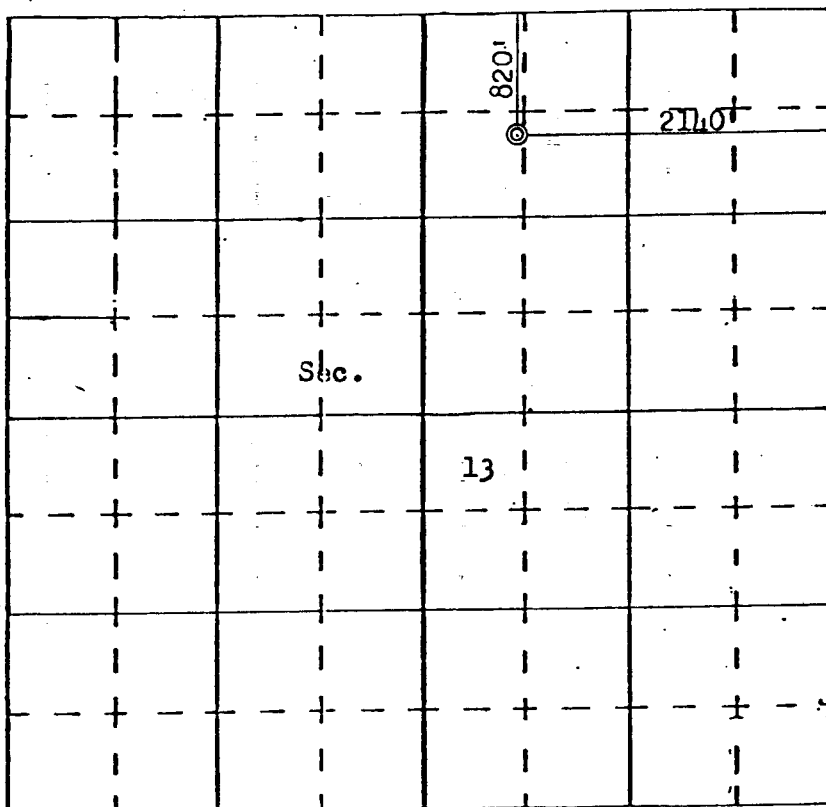
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA-JOHN YAKUSHIK WELL NO. 1

SEC. 13, T. 39S, R. 1E S.L.M.
KANE COUNTY, UTAH

LOCATION 820'FNL 2140'FEL

ELEVATION 5753 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED December 11, 19 79

FARMINGTON, N. M.

2

11

14

To Cannonville
- - - - -
+ 25 miles

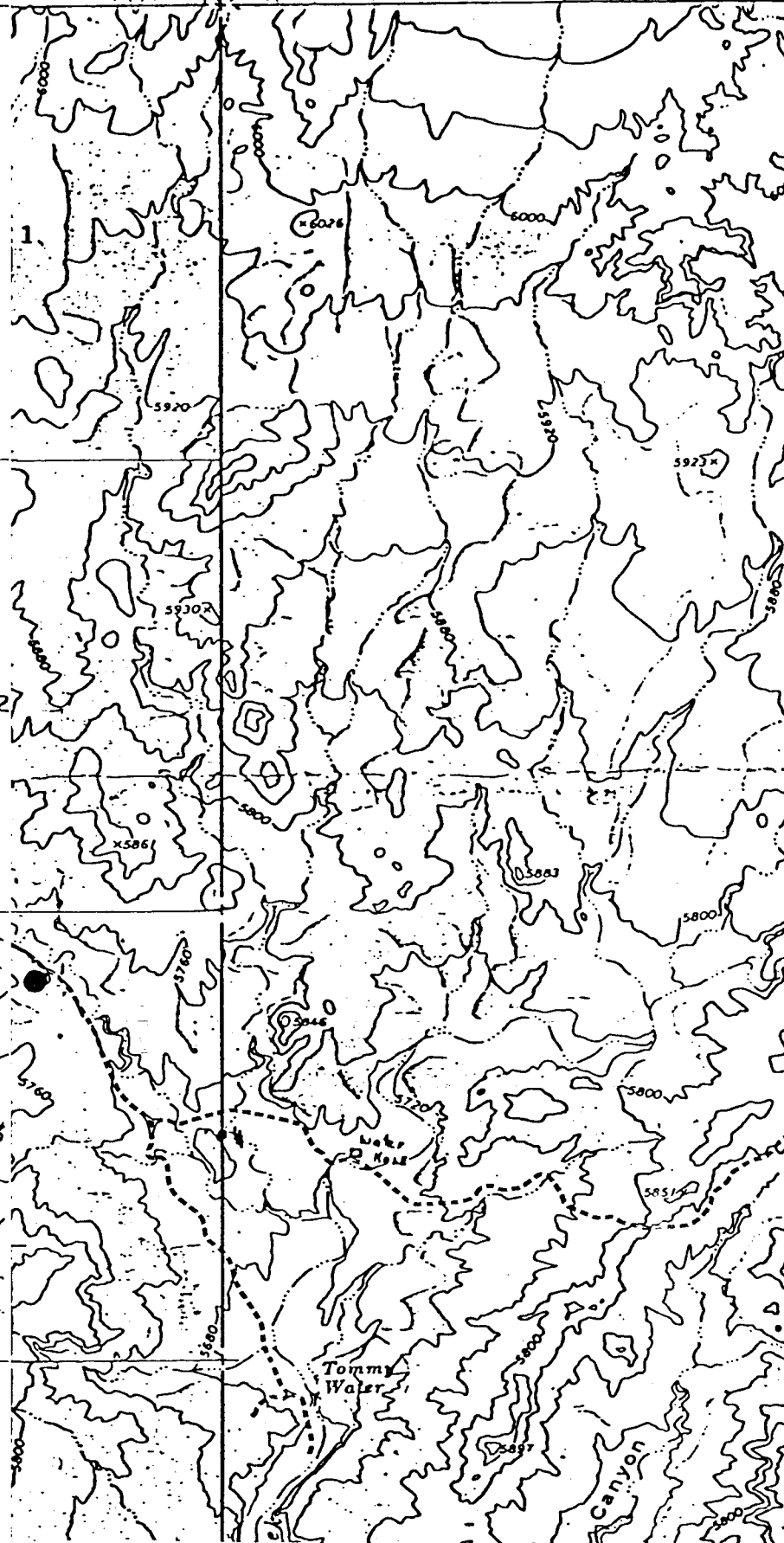
Payne

AMOCO

Tommy
Water

Canyon

Vicinity Map for
AMOCO PRODUCTION COMPANY #1 USA-JOHN YAKUSHIK
820'FNL 2140'FEL Sec 13-T39S-R1E
KANE COUNTY, UTAH



SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The geologic name of the surface formation is the Upper Cretaceous Kaiporowits.
2. Estimated tops of important geological markers:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Wahweep	994'	4772'
Alvex	1354'	4412'
Christensen	1744'	4022'
Upper Straight Cliffs	1844'	3922'
TD	1994'	

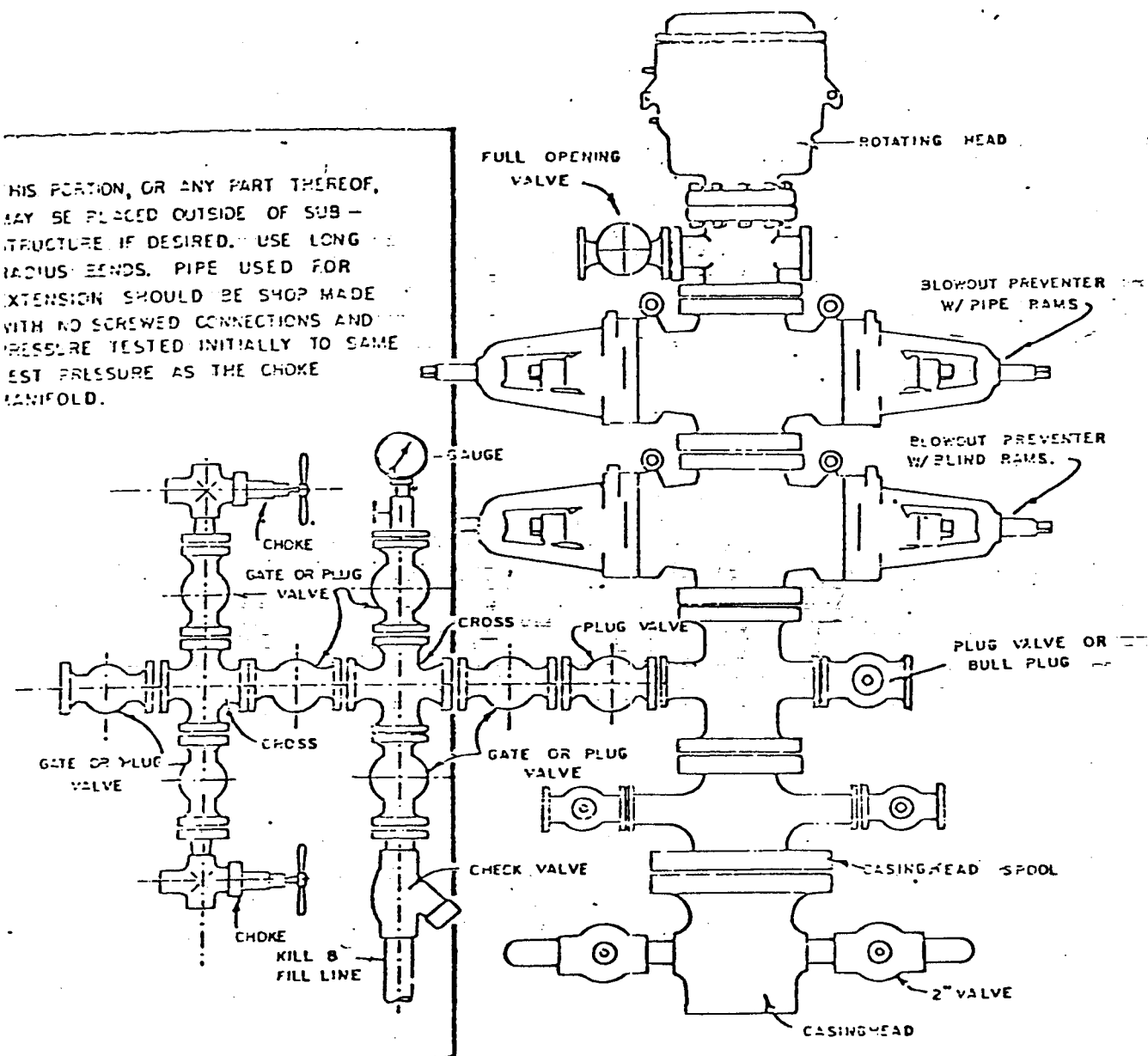
Estimated KB elevation: 5766'.

3. Gas is anticipated in the Alvex formation at 1354' and the Christensen formation at 1744'.
4. The casing program is stated on line 23 of Form 9-331C.
5. A drawing of Amoco's standard blowout preventer is attached and includes the following.
 - A. Blowout preventers and master valve to be fluid operated and and all fittings must be in good condition.
 - B. Equipment through which the bit must pass will be at least as large as the inside diameter of the casing that is being drilled through.
 - C. The nipple above the blowout preventer shall be the same size or larger than the BOP being drilled through.
 - D. All fittings are to be flanged and be of API series #300.
 - E. The blowout preventer will be rated at 3000 psi working pressure and 6000 psi test pressure. The blowout preventer will be pressure tested to 1000 psi after surface casing is set.

F. Operation of the blowout preventer will be tested by closing both pipe and blind rams each trip or on long bit runs the pipe rams will be closed once every 24 hours.

6. The well will be drilled with a 9.0 lb per gallon low solids non-dispersed fresh water mud system. Approximately 350 to 400 barrels of mud will be maintained in the mud pits dependent on what drilling rig is to be used.
 7. Auxiliary equipment used will include kellycocks, a sub on the rig floor with a full opening valve and depending on the drilling rig used, floats at the bit. The safety valve will be OMSCO or comparable and will be available on the rig floor at all times with the proper connection or sub. The I.D. of the safety valve will be at least as great as the I.D. of the tool joints of the drill pipe or at least as great as the I.D. of the drill collars.
 8. The following open hole logs will be run from T.D. to the base of the surface casing:
 - Induction Electric - Spontaneous Potential - Gamma Ray
 - Compensated Neutron Density - Compensated Formation Density - Gamma Ray
- There will be one core taken in the Alvex formation and two cores taken in the Christensen formation. The exact intervals to be cored will be picked by an on site Amoco geologist. No drill stem tests will be taken. Completion design will be based on the open hole logs.
9. No abnormal pressures, temperatures or potential hazards such as Hydrogen Sulfide are anticipated.
 10. Operations should start within several days after being permitted and last approximately 6 weeks.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The attached topographic map shows the proposed well site, routes to the well, and access roads. All roads within three miles of the well are a dirt surface and will be maintained in their present condition.
2. The attached surveyor's map shows the necessary access road to be constructed to the well site.
3. To Amoco's knowledge, there are no wells of any type within a two-mile radius of the proposed well.
4. A. Amoco neither owns or operates any tank batteries, production facilities, or any type of pipe lines located within a one-mile radius of the proposed well.
B. No new production facilities are contemplated until such time the possibility of field production is proven.
C. All disturbed areas no longer needed for operations will be rehabilitated to Bureau of Land Management requirements.
5. A. Water will be taken from a water hole approximately one mile east on an unknown wash; also from downstream on the same wash approximately one-half mile at "Tommy Water." Also, 5.3 miles southeast of the well at "Fourmile Water" is a good supply of water. All the above sites for water withdrawal have been approved by the Utah State Engineer, and a Temporary Water Use Permit No. 54158 (89-1279) has been issued.
B. The water will be collected in surface sump pits approximately 12' x 12' x 6' in size. The water will be transferred to tank trucks by temporary hoses for transportation to the well site by existing roads. Each truck load will remove 3150 gallons and 80 loads are expected to fill our requirements. All sumps will be rehabilitated to Bureau of Land Management requirements.
C. Not applicable.
6. No construction materials will be hauled in for this location.
7. All waste drilling materials and cuttings will be stored in an unlined reserve pit (75' X 125') to be fenced and left to dry up or be hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and the rig will be disposed of in holes in the ground and later filled and covered. The trash pit will be fenced with small mesh wire to contain the refuse until it is buried or burned. When the rig moves out, all non-native materials will be removed from the well site, except for the wellhead, and the pit will be leveled.
8. There are neither airstrips nor camps in the vicinity.

9. Attached are a plat of the well site and a drawing showing mud tanks, reserve, burn and trash pits, pipe racks, living facilities, rig orientation, parking areas and access roads. All pits will be unlined.
10. Restoration of the surface will be accomplished by filling pits and leveling. After the rig moves off, the surface will be reseeded and rehabilitated to Bureau of Land Management requirements and time tables.
11. A. The general well site topography is gentle rolling terrain with sandy clay soil. There are no prominent geologic features at the well site. Vegetation in the area consists of sagebrush, native grasses, cedar and pinon trees. No evidence of fauna was observed at the well site.

B. There are no other surface activities in the area. The surface is managed by the Bureau of Land Management.

C. There is a wash 300 feet northeast of the well site. No occupied dwellings, archaeological, historical or cultural sites near the well site.

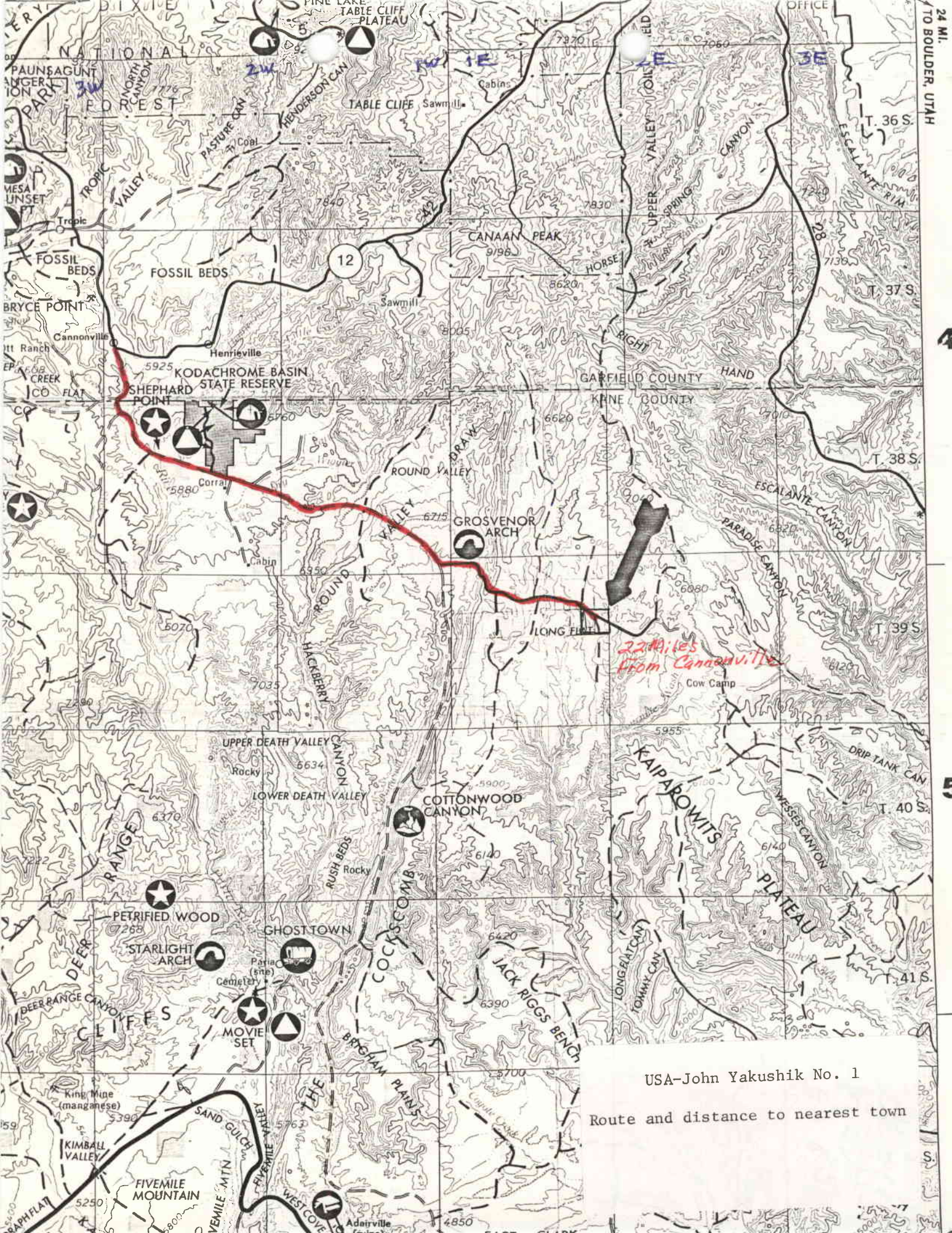
Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

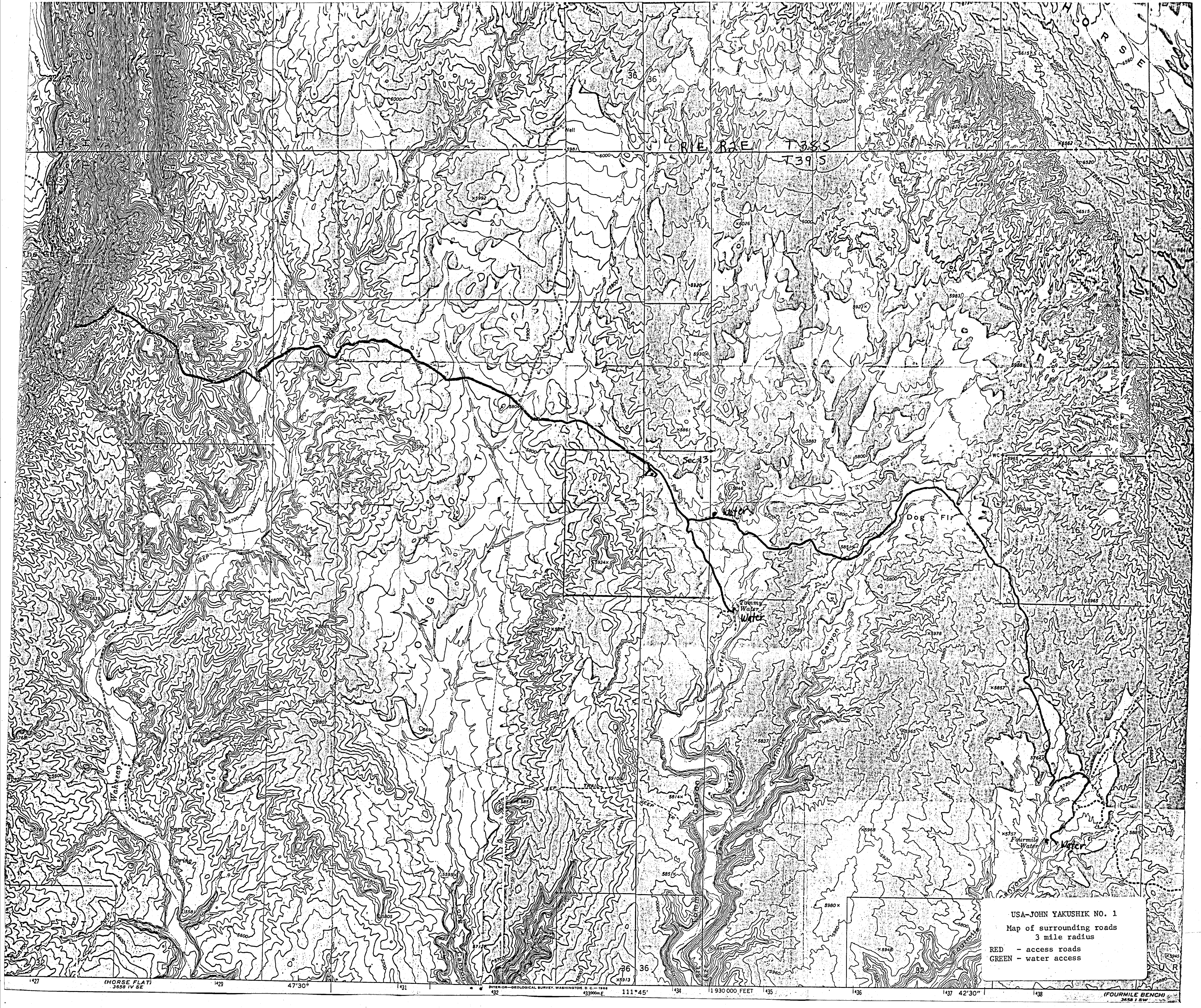
Date February 8, 1980


R. W. Schroeder, District Superintendent



USA-John Yakushik No. 1

Route and distance to nearest town

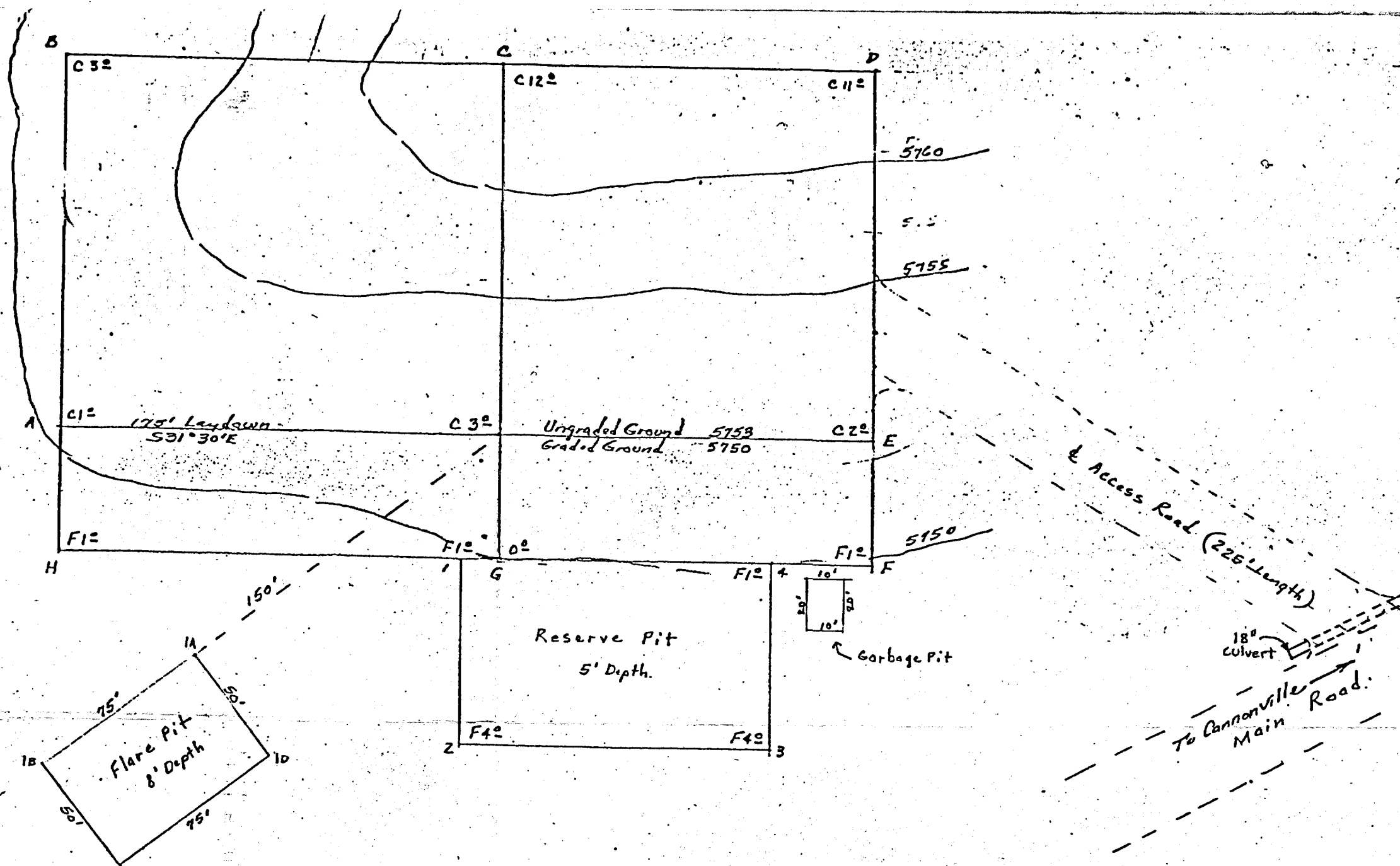


USA-JOHN YAKUSHIK NO. 1
Map of surrounding roads
3 mile radius
RED - access roads
GREEN - water access

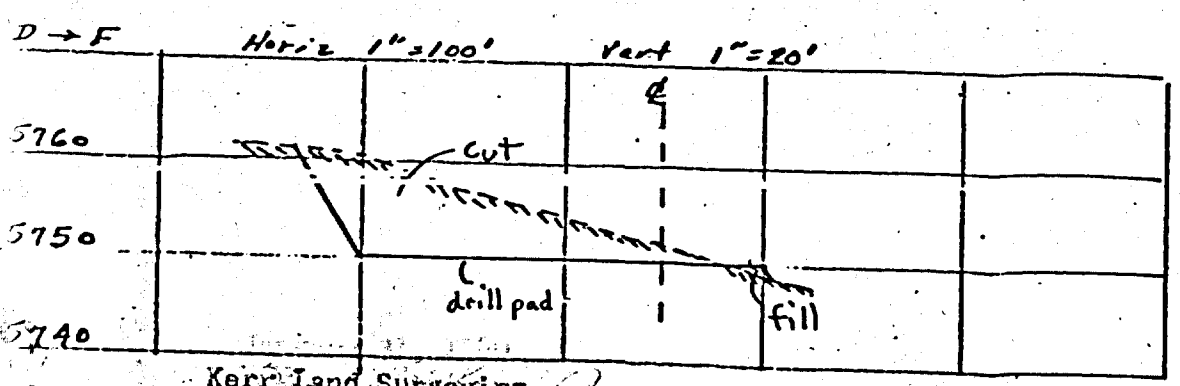
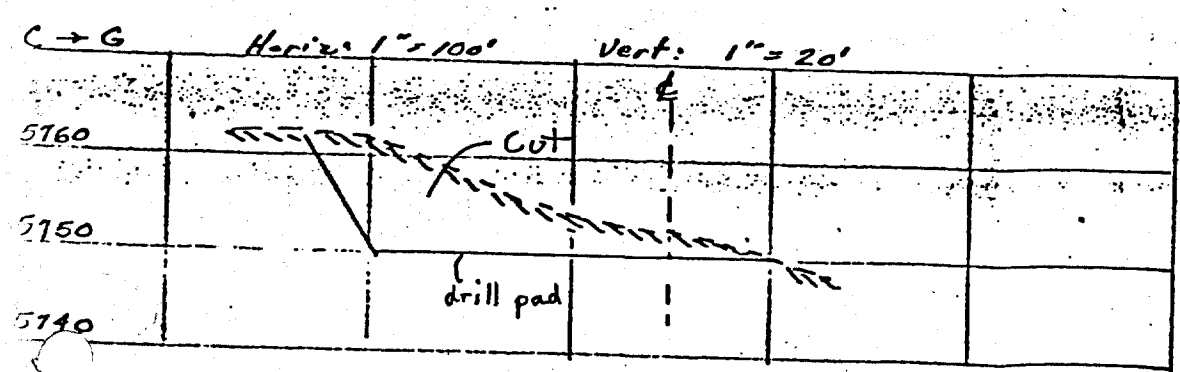
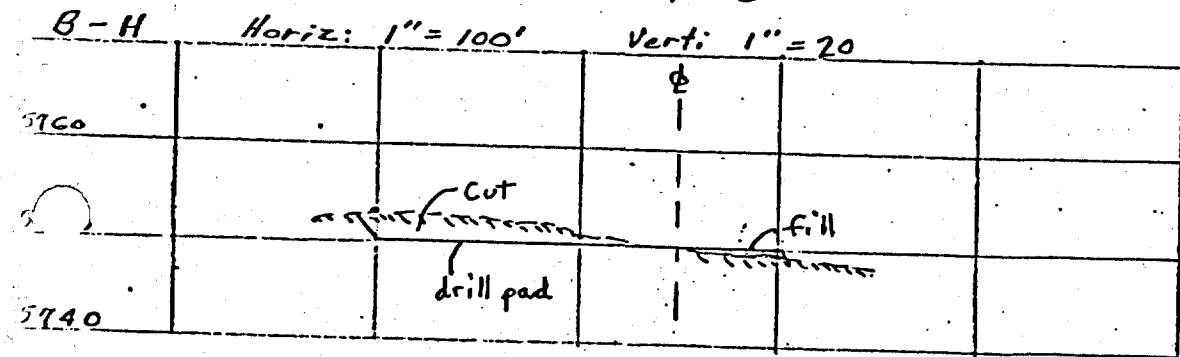
(HORSE FLAT)
3658 IV SE

(FOURMILE BENCH)
3658 I SW

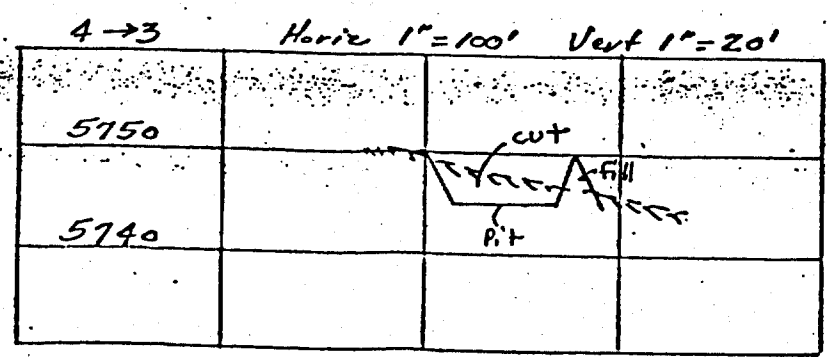
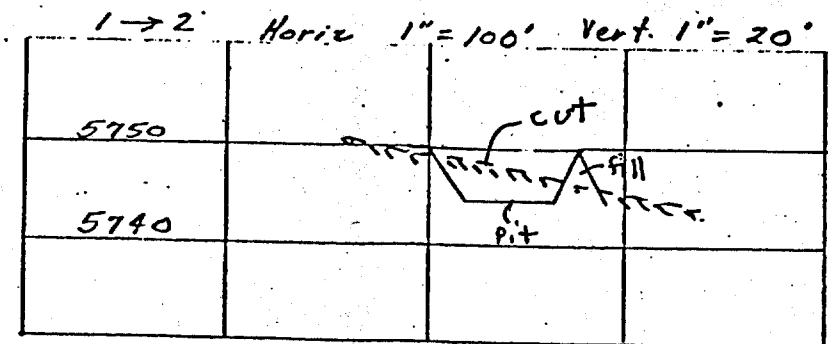
Scale: 1" = 50'



Location Profile



Pit Profile



Access Road

Width - 30'
 Max. Grade - 30°
 No turnouts or drainage design
 One 18" culvert will be placed
 where the access road leaves
 the main road.
 No major cuts and fills will be
 necessary.
 No surfacing material, cattle guards
 or fence cuts will be made.

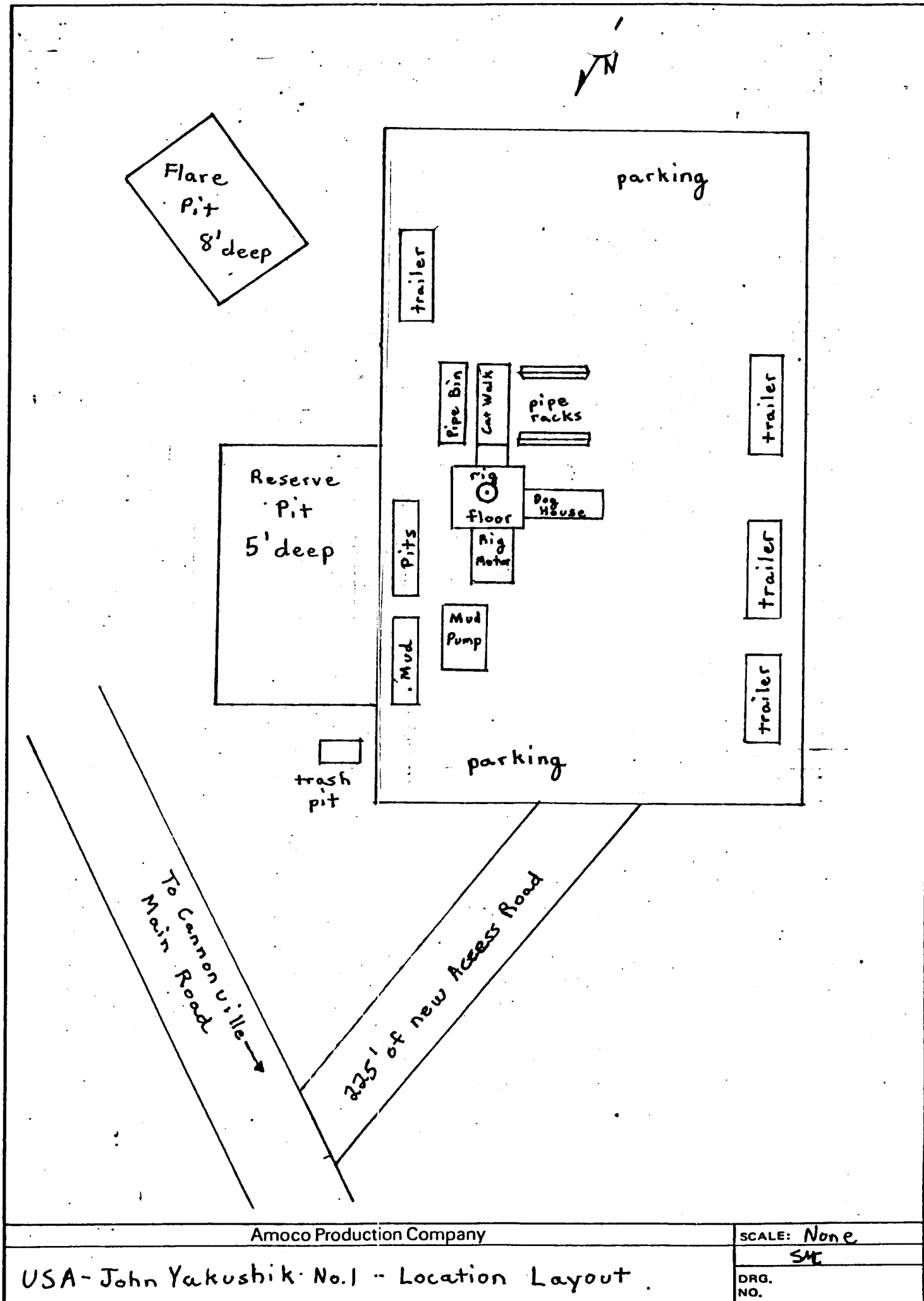
Profile Map for

AMOCO PRODUCTION COMPANY #1 JOHN YAKUSHIK-USA
 820'FNL 2140'FEL Sec 13-T39S-1E S.L.M.
 KANE COUNTY, UTAH

January 31, 1980

Kerr Land Surveying

Kerr Land Surveying



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. U-25534																					
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME																					
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY				7. UNIT AGREEMENT NAME																					
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401				8. FARM OR LEASE NAME USA-John Yakushik																					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 820' FNL and 2140' FEL, Section 13, T39S, R1E At proposed prod. zone Same				9. WELL NO. 1																					
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 17 miles Southeast of Henrieville, Utah				10. FIELD AND POOL, OR WILDCAT Wildcat																					
16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 820'		17. NO. OF ACRES IN LEASE 2,560		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4, NE/4, Section 13, T39S, R1E																					
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		19. PROPOSED DEPTH 1994'		12. COUNTY OR PARISH Kane																					
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5753' Ungraded ground				13. STATE Utah																					
22. APPROX. DATE WORK WILL START* As soon as permitted				20. ROTARY OR CABLE TOOLS Rotary																					
23. PROPOSED CASING AND CEMENTING PROGRAM																									
<table border="1"><thead><tr><th>SIZE OF HOLE</th><th>SIZE OF CASING</th><th>WEIGHT PER FOOT</th><th>SETTING DEPTH</th><th>QUANTITY OF CEMENT</th></tr></thead><tbody><tr><td>15-1/2"</td><td>13-3/8" New</td><td>54.5# J55</td><td>300'</td><td>300 sx Class B Neat x 2% CaCl2-CIRC</td></tr><tr><td>12-1/4"</td><td>8-5/8" New</td><td>32# H40</td><td>1994'</td><td>575 sx Class B 50:50 POZ x 6% gel x 2# med tuf plug per sx x .2% fluid loss additive-CIRC</td></tr><tr><td></td><td></td><td></td><td></td><td>100 sx Class B Neat</td></tr></tbody></table>						SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	15-1/2"	13-3/8" New	54.5# J55	300'	300 sx Class B Neat x 2% CaCl2-CIRC	12-1/4"	8-5/8" New	32# H40	1994'	575 sx Class B 50:50 POZ x 6% gel x 2# med tuf plug per sx x .2% fluid loss additive-CIRC					100 sx Class B Neat
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Resubmittal of original application dated 1/3/80.

Amoco Production Company proposes to drill the above Wildcat well to a depth of 2000' to test the Christensen section and penetrate the Upper Straight Cliffs. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached. This well is being drilled as a TITE HOLE and information is to be kept CONFIDENTIAL.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Original Signed By
B. E. FACKRELL TITLE District Engineer
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE
DIVISION OF
OIL, GAS & MINING**RECEIVED**
FEB 14 1980

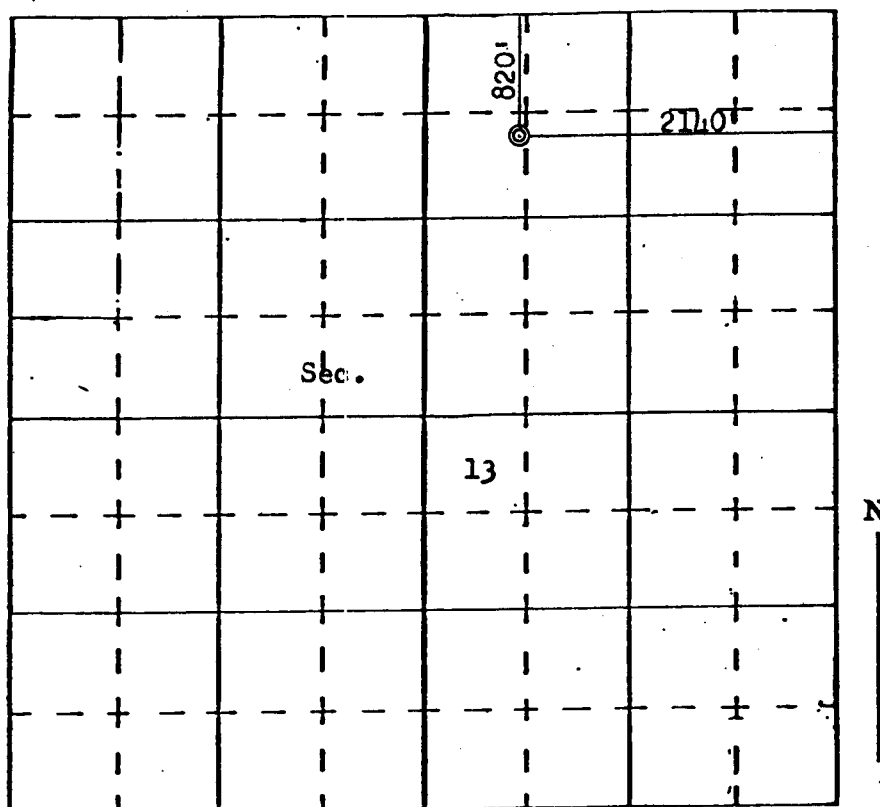
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA-JOHN YAKUSHIK WELL NO. 1

SEC. 13, T. 39S, R. 1E S.L.M.
KANE COUNTY, UTAH

LOCATION 820'FNL 2140'FEL

ELEVATION 5753 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED December 11, 1979

FARMINGTON, N. M.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The geologic name of the surface formation is the Upper Cretaceous Kaiporowits.
2. Estimated tops of important geological markers:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Wahweep	994'	4772'
Alvex	1354'	4412'
Christensen	1744'	4022'
Upper Straight Cliffs	1844'	3922'
TD	1994'	

Estimated KB elevation: 5766'.

3. Gas is anticipated in the Alvex formation at 1354' and the Christensen formation at 1744'.
4. The casing program is stated on line 23 of Form 9-331C.
5. A drawing of Amoco's standard blowout preventer is attached and includes the following.
 - A. Blowout preventers and master valve to be fluid operated and and all fittings must be in good condition.
 - B. Equipment through which the bit must pass will be at least as large as the inside diameter of the casing that is being drilled through.
 - C. The nipple above the blowout preventer shall be the same size or larger than the BOP being drilled through.
 - D. All fittings are to be flanged and be of API series #300.
 - E. The blowout preventer will be rated at 3000 psi working pressure and 6000 psi test pressure. The blowout preventer will be pressure tested to 1000 psi after surface casing is set.

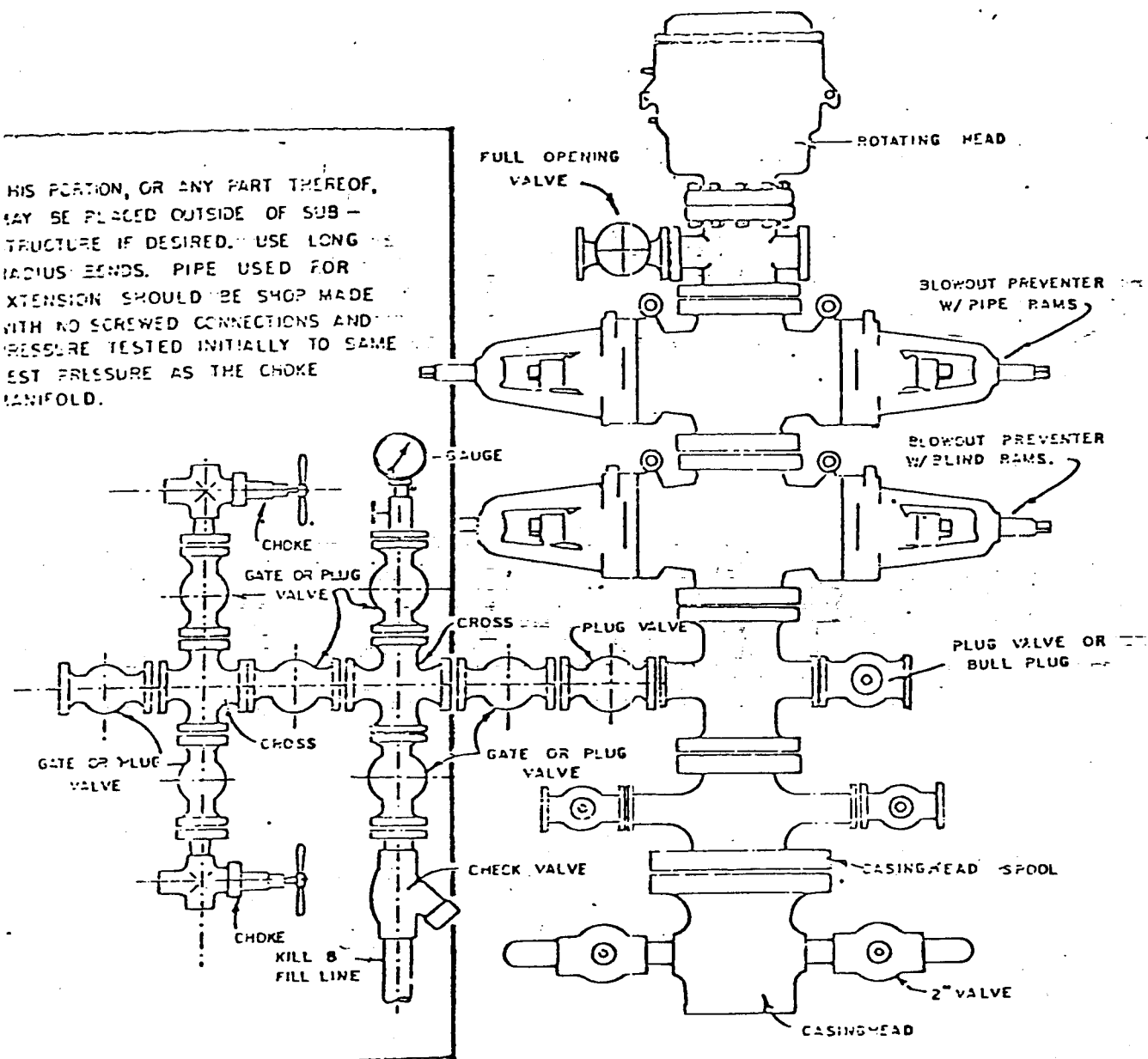
F. Operation of the blowout preventer will be tested by closing both pipe and blind rams each trip or on long bit runs the pipe rams will be closed once every 24 hours.

6. The well will be drilled with a 9.0 lb per gallon low solids non-dispersed fresh water mud system. Approximately 350 to 400 barrels of mud will be maintained in the mud pits dependent on what drilling rig is to be used.
7. Auxiliary equipment used will include kellycocks, a sub on the rig floor with a full opening valve and depending on the drilling rig used, floats at the bit. The safety valve will be OMSCO or comparable and will be available on the rig floor at all times with the proper connection or sub. The I.D. of the safety valve will be at least as great as the I.D. of the tool joints of the drill pipe or at least as great as the I.D. of the drill collars.
8. The following open hole logs will be run from T.D. to the base of the surface casing:

Induction Electric - Spontaneous Potential - Gamma Ray
Compensated Neutron Density - Compensated Formation Density - Gamma Ray

There will be one core taken in the Alvex formation and two cores taken in the Christensen formation. The exact intervals to be cored will be picked by an on site Amoco geologist. No drill stem tests will be taken. Completion design will be based on the open hole logs.
9. No abnormal pressures, temperatures or potential hazards such as Hydrogen Sulfide are anticipated.
10. Operations should start within several days after being permitted and last approximately 6 weeks.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The attached topographic map shows the proposed well site, routes to the well, and access roads. All roads within three miles of the well are a dirt surface and will be maintained in their present condition.
2. The attached surveyor's map shows the necessary access road to be constructed to the well site.
3. To Amoco's knowledge, there are no wells of any type within a two-mile radius of the proposed well.
4. A. Amoco neither owns or operates any tank batteries, production facilities, or any type of pipe lines located within a one-mile radius of the proposed well.
B. No new production facilities are contemplated until such time the possibility of field production is proven.
C. All disturbed areas no longer needed for operations will be rehabilitated to Bureau of Land Management requirements.
5. A. Water will be taken from a water hole approximately one mile east on an unknown wash; also from downstream on the same wash approximately one-half mile at "Tommy Water." Also, 5.3 miles southeast of the well at "Fourmile Water" is a good supply of water. All the above sites for water withdrawal have been approved by the Utah State Engineer, and a Temporary Water Use Permit No. 54158 (39-1279) has been issued.
B. The water will be collected in surface sump pits approximately 12' x 12' x 6' in size. The water will be transferred to tank trucks by temporary hoses for transportation to the well site by existing roads. Each truck load will remove 3150 gallons and 80 loads are expected to fill our requirements. All sumps will be rehabilitated to Bureau of Land Management requirements.
C. Not applicable.
6. No construction materials will be hauled in for this location.
7. All waste drilling materials and cuttings will be stored in an unlined reserve pit (75' X 125') to be fenced and left to dry up or be hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and the rig will be disposed of in holes in the ground and later filled and covered. The trash pit will be fenced with small mesh wire to contain the refuse until it is buried or burned. When the rig moves out, all non-native materials will be removed from the well site, except for the wellhead, and the pit will be leveled.
8. There are neither airstrips nor camps in the vicinity.

9. Attached are a plat of the well site and a drawing showing mud tanks, reserve, burn and trash pits, pipe racks, living facilities, rig orientation, parking areas and access roads. All pits will be unlined.
10. Restoration of the surface will be accomplished by filling pits and leveling. After the rig moves off, the surface will be reseeded and rehabilitated to Bureau of Land Management requirements and time tables.
11. A. The general well site topography is gentle rolling terrain with sandy clay soil. There are no prominent geologic features at the well site. Vegetation in the area consists of sagebrush, native grasses, cedar and piñon trees. No evidence of fauna was observed at the well site.

B. There are no other surface activities in the area. The surface is managed by the Bureau of Land Management.


C. There is a wash 300 feet northeast of the well site. No occupied dwellings, archaeological, historical or cultural sites near the well site.

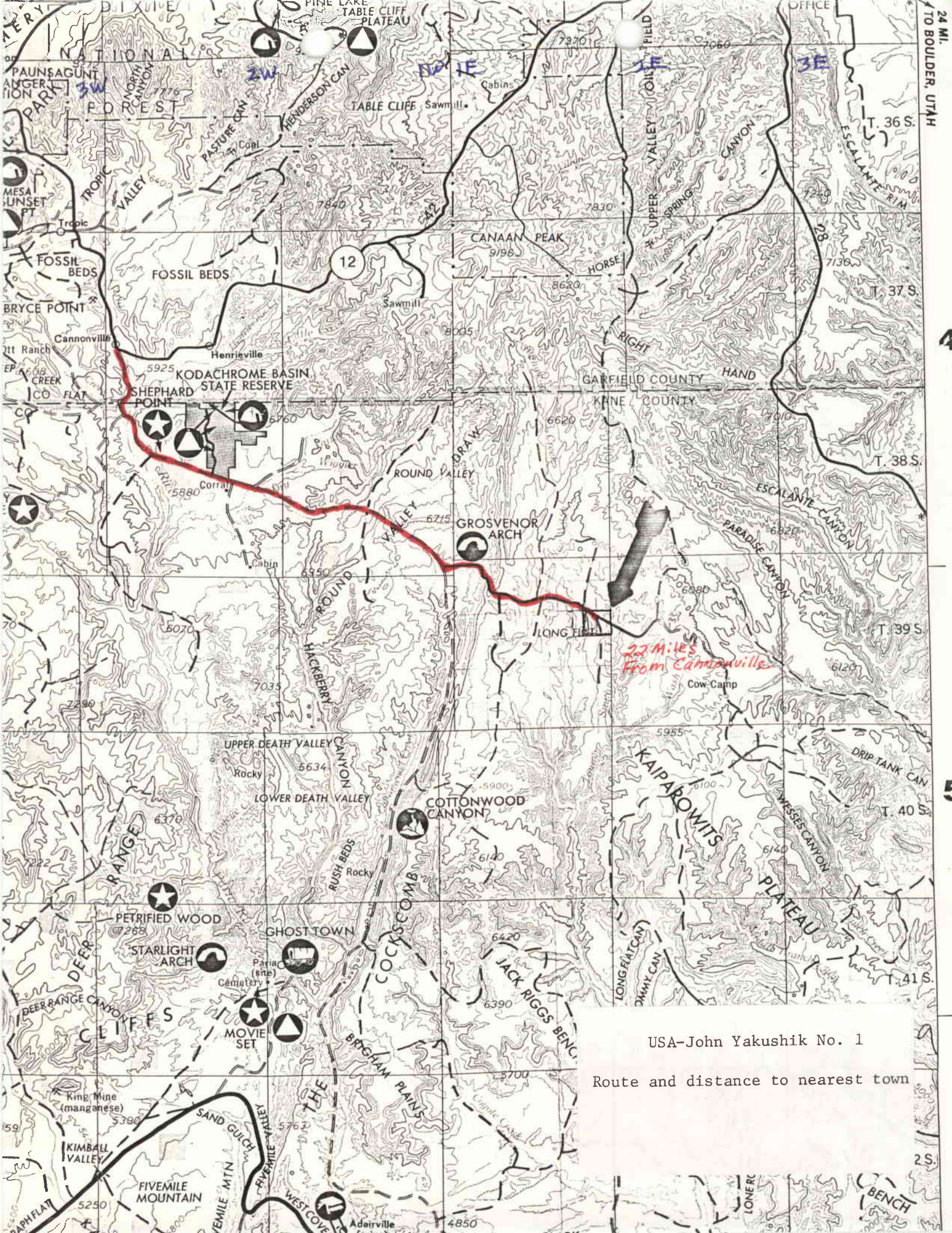
Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

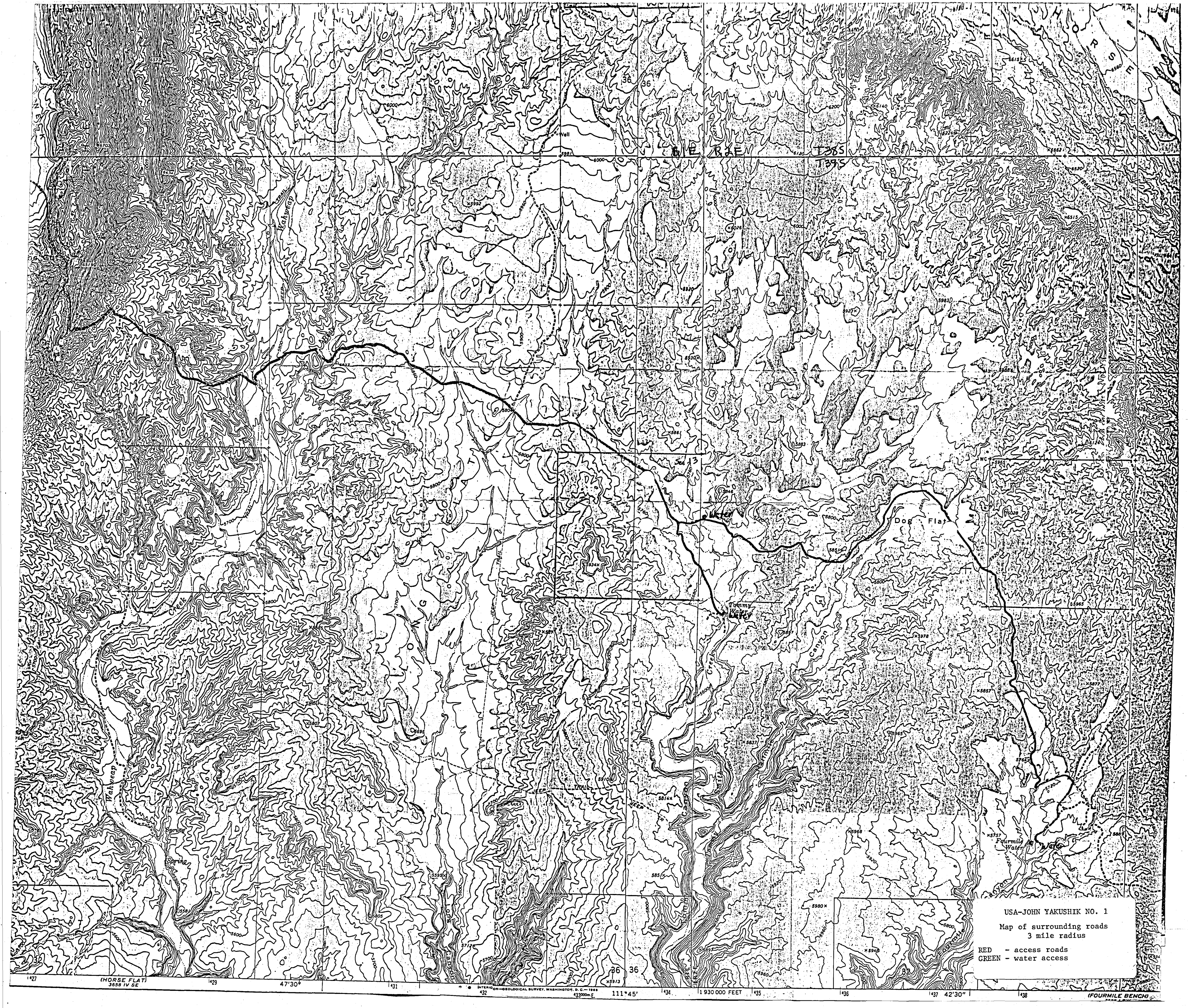
Date February 8, 1980


R. W. Schroeder, District Superintendent

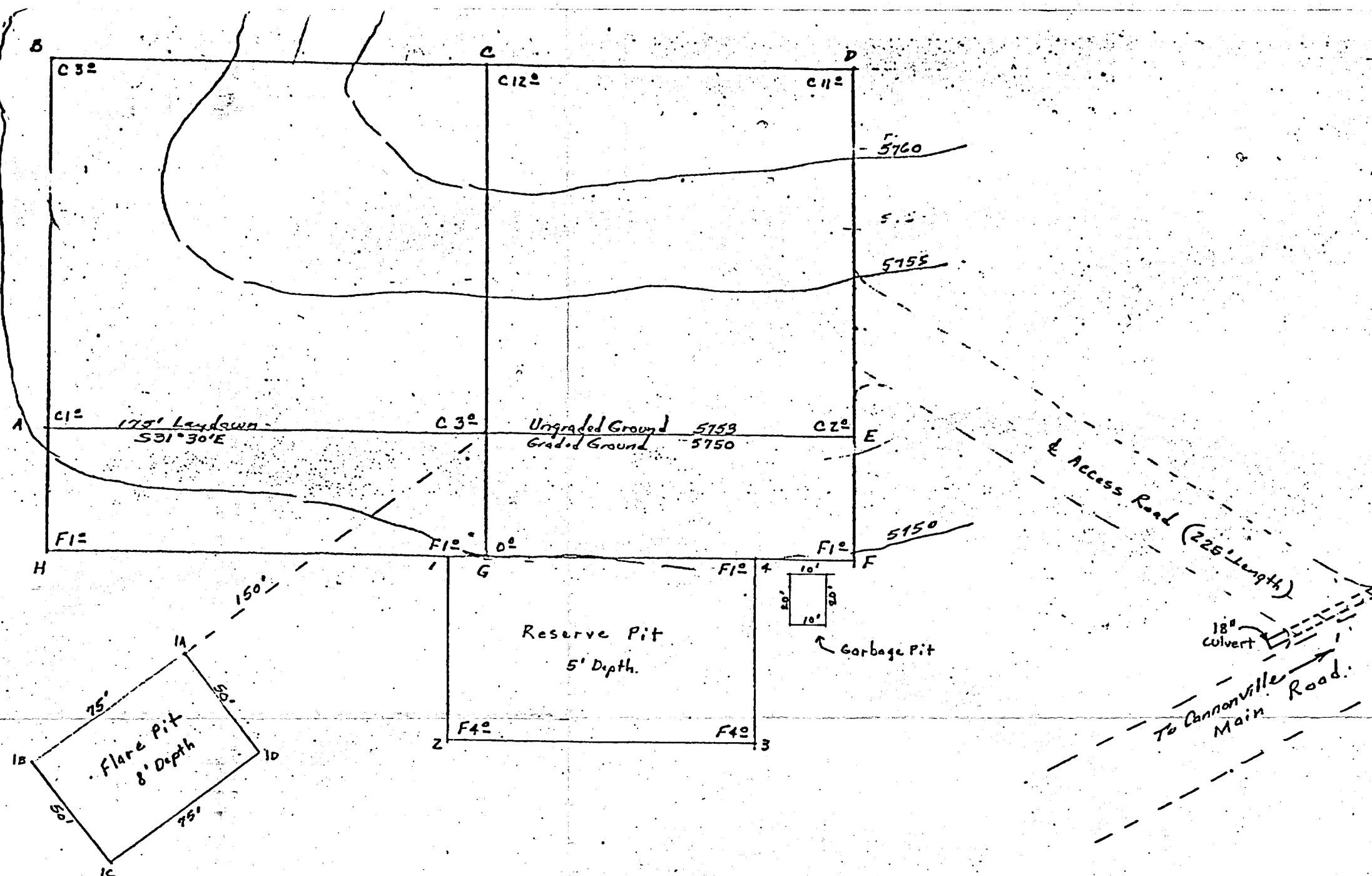


USA-John Yakushik No. 1

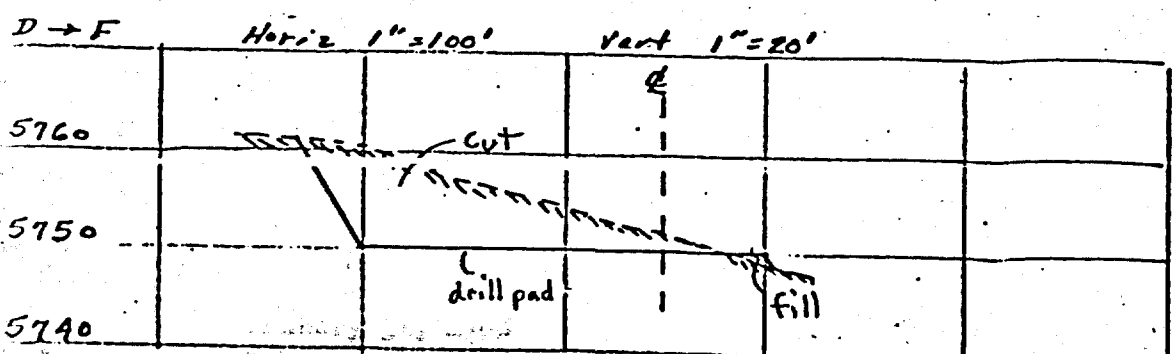
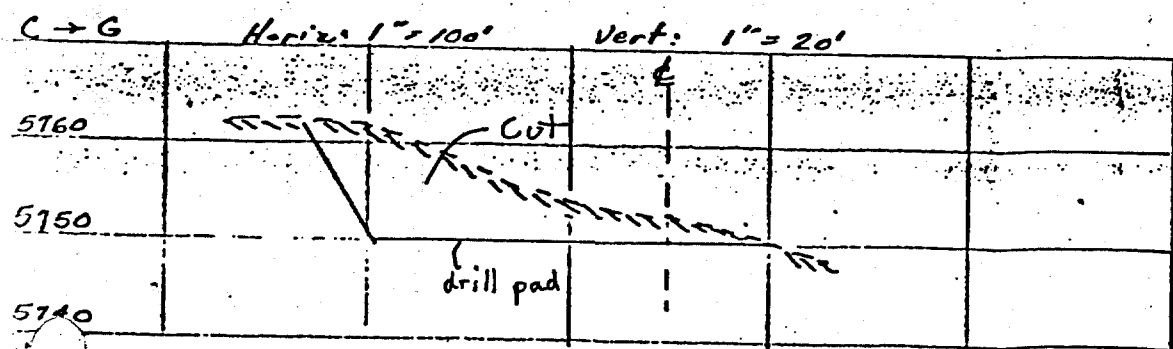
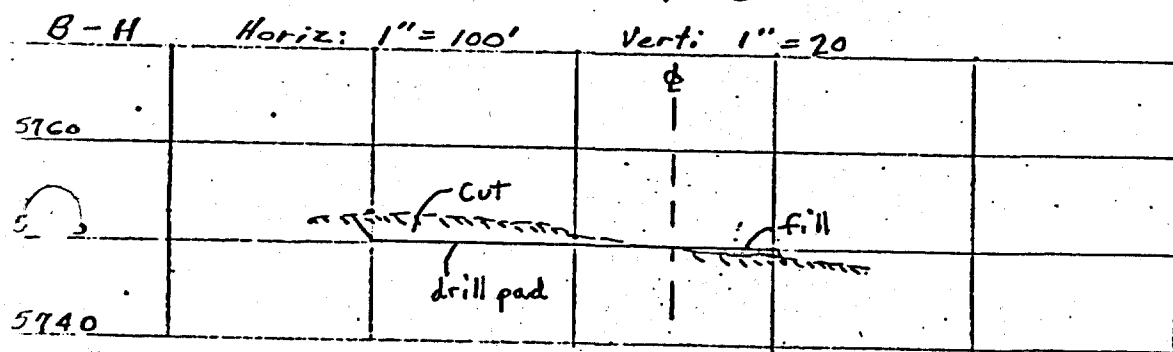
Route and distance to nearest town



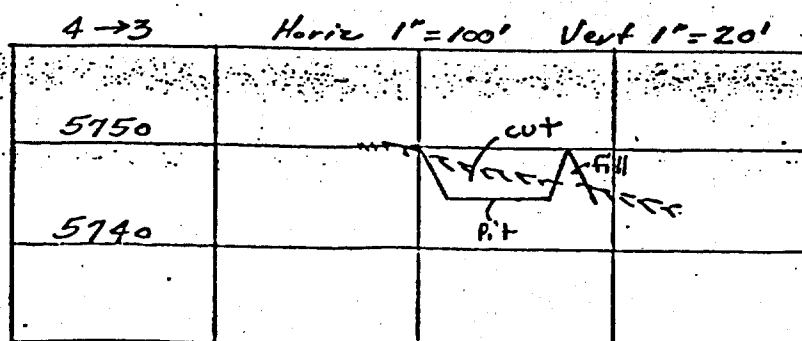
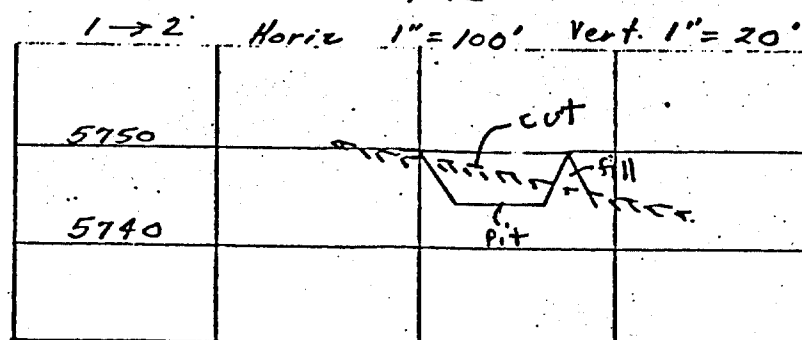
Scale: 1" = 50'



Location Profile



Pit Profile



Access Road

Width - 30'
 Max. Grade - 3°
 No turnouts or drainage design
 One 18" culvert will be placed
 where the access road leaves
 the main road.
 No major cuts and fills will be
 necessary.
 No surfacing material, cattle guards
 or fence cuts will be made.

Profile Map for

AMOCO PRODUCTION COMPANY #1 JOHN YAKUSHIK-USA
 820'FNL 2140'FEL Sec 13-T39S-1E S.L.M.
 KANE COUNTY, UTAH

January 31, 1980

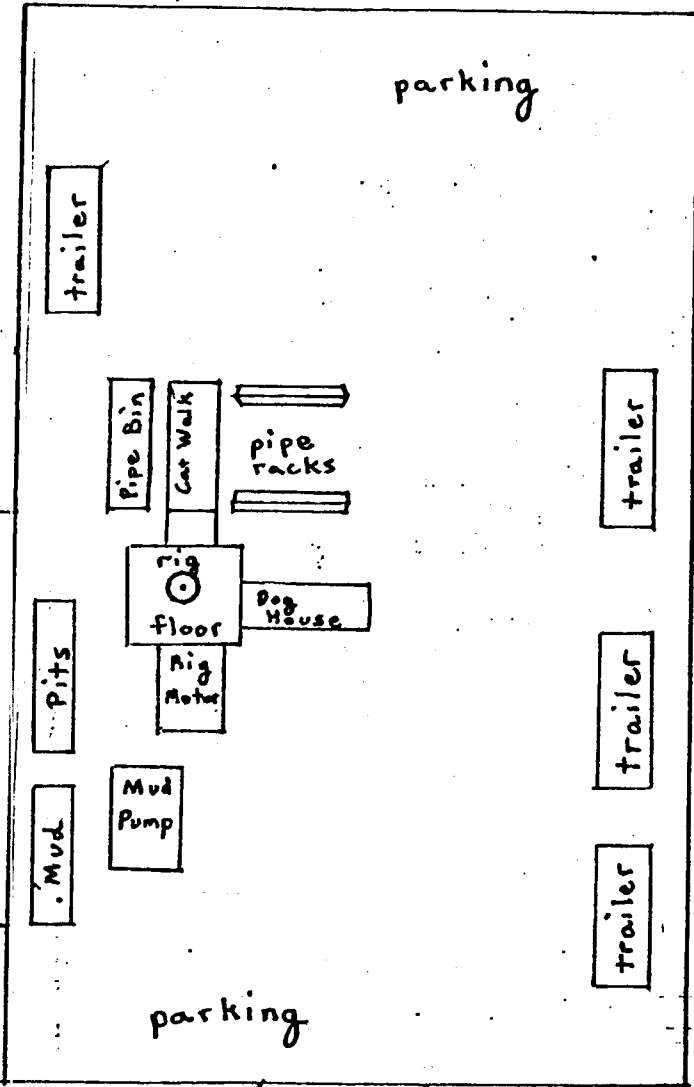
Kerr Land Surveying

Kerr Land Surveying



Flare
Pit
8' deep

Reserve
Pit
5' deep



To Cannonville →
Main Road

225' of new Access Road

Amoco Production Company		SCALE: None
USA - John Yakushik No.1 - Location Layout		SM
		DRG. NO.

CONFIDENTIAL
UNITED STATES DEPARTMENT OF THE INTERIOR
DUPLICATE
GEOLOGICAL SURVEY**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-25534	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401		8. FARM OR LEASE NAME USA-John Yakushik	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 820' FNL and 2140' FEL, Section 13, T39S, R1E At proposed prod. zone Same		9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 17 miles Southeast of Henrieville, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 820'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4, NE/4, Section 13, T39S, R1E	
16. NO. OF ACRES IN LEASE 2,560		12. COUNTY OR PARISH Kane	
17. NO. OF ACRES ASSIGNED TO THIS WELL Wildcat		13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5753' Ungraded ground		22. APPROX. DATE WORK WILL START* As soon as permitted	
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
15-1/2"	13-3/8" New	54.5# J55	300'
12-1/4"	8-5/8" New	32# H40	1994'
		QUANTITY OF CEMENT	
		300 sx Class B Neat x 2% CaCl2-CIRC	
		575 sx Class B 50:50 POZ x 6% gel	
		x 2# med tuf plug per sx x .2%	
		fluid loss additive-CIRC	
		100 sx Class B Neat	

Resubmittal of original application dated 1/3/80.

Amoco Production Company proposes to drill the above Wildcat well to a depth of 2000' to test the Christensen section and penetrate the Upper Straight Cliffs. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached. This well is being drilled as a TITE HOLE and information is to be kept CONFIDENTIAL.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED <u>B.E. Juchull</u>		TITLE <u>District Engineer</u>		RECEIVED February 8, 1980 FEB 14 1980
(This space for Federal or State office use)				
PERMIT NO. _____		APPROVAL DATE _____		
APPROVED BY _____		TITLE _____		
CONDITIONS OF APPROVAL, IF ANY:				DIVISION OF OIL, GAS & MINING

SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The geologic name of the surface formation is the Upper Cretaceous Kaiporowits.
2. Estimated tops of important geological markers:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Top Wahweep	1006'	4760'
Top Straight Cliff	2006'	3760'
Top Alvex Coal	2366'	3400'
Top Christensen Coal	2756'	3010'
Top Tropic Shale	3006'	2760'
TD	3006'	

Estimated KB elevation: 5766'.

3. Gas is anticipated in the Alvex formation at 2366' and the Christensen formation at 2766'.
4. The casing program is stated on line 23 of Form 9-331C.
5. A drawing of Amoco's standard blowout preventer is attached and includes the following.
 - A. Blowout preventers and master valve to be fluid operated and all fittings must be in good condition.
 - B. Equipment through which the bit must pass will be at least as large as the inside diameter of the casing that is being drilled through.
 - C. The nipple above the blowout preventer shall be the same size or larger than the BOP being drilled through.
 - D. All fittings are to be flanged and be of API series #300.
 - E. The blowout preventer will be rated at 3000 psi working pressure and 6000 psi test pressure. The blowout preventer will be pressure tested to 1000 psi after surface casing is set.

F. Operation of the blowout preventer will be tested by closing both pipe and blind rams each trip or on long bit runs the pipe rams will be closed once every 24 hours.

6. The well will be drilled with a 8.5-9.2 lb per gallon low solids non-dispersed fresh water mud system. Approximately 350 to 400 barrels of mud will be maintained in the mud pits dependent on what drilling rig is to be used.
7. Auxiliary equipment used will be a sub on the rig floor with a full opening valve. The safety valve will be OMSCO or comparable and will be available on the rig floor at all times with the proper connection or sub. The I.D. of the safety valve will be at least as great as the I.D. of the tool joints of the drill pipe or at least as great as the I.D. of the drill collars.
8. The following open hole logs will be run from T.D. to the base of the surface casing:

Density (long and short spaced), Gamma Ray, Caliper, Spontaneous Potential
Induction Resistivity, Neutron/Neutron Sonic

The well will be continuously cored through the Straight Cliffs formation from 2006' to 3006' approximately. No in situ formation testing or stimulation of coal beds will be conducted. The well will be plugged and abandoned after logging operations are completed.

9. No abnormal pressures, temperatures or potential hazards such as Hydrogen Sulfide are anticipated.
10. Operations should start within several days after being permitted and last approximately 6 weeks.

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The attached topographic map shows the proposed well site, routes to the well, and access roads. All roads within three miles of the well are a dirt surface and will be maintained in their present condition.
2. The attached surveyor's map shows the necessary access road to be constructed to the well site.
3. To Amoco's knowledge, there are no wells of any type within a two-mile radius of the proposed well.
4. A. Amoco neither owns or operates any tank batteries, production facilities, or any type of pipe lines located within a one-mile radius of the proposed well.
B. No new production facilities are contemplated.
C. All disturbed areas no longer needed for operations will be rehabilitated to Bureau of Land Management requirements.
5. A. Water will be taken from a water hole approximately one mile east on an unknown wash; also from downstream on the same wash approximately one-half mile at "Tommy Water." Also, 5.3 miles southeast of the well at "Fourmile Water" is a good supply of water. All the above sites for water withdrawal have been approved by the Utah State Engineer, and a Temporary Water Use Permit No. 54158 (89-1279) has been issued.
B. The water will be collected in surface sump pits approximately 12' x 12' x 6' in size. The water will be transferred to tank trucks by temporary hoses for transportation to the well site by existing roads. Each truck load will remove 3150 gallons and 80 loads are expected to fill our requirements. All sumps will be rehabilitated to Bureau of Land Management requirements.
C. Not applicable.
6. No construction materials will be hauled in for this location.
7. All waste drilling materials and cuttings will be stored in an unlined reserve pit (75' X 125') to be fenced and left to dry up or be hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and the rig will be disposed of in holes in the ground and later filled and covered. The trash pit will be fenced with small mesh wire to contain the refuse until it is buried or burned. When the rig moves out, all non-native materials will be removed from the well site, except for the P&A marker, and the pit will be leveled.
8. There are neither airstrips nor camps in the vicinity.

9. Attached are a plat of the well site and a drawing showing mud tanks, reserve, burn and trash pits, pipe racks, living facilities, rig orientation, parking areas and access roads. All pits will be unlined.
10. Restoration of the surface will be accomplished by filling pits and leveling. After the rig moves off, the surface will be reseeded and rehabilitated to Bureau of Land Management requirements and time tables.
11. A. The general well site topography is gentle rolling terrain with sandy clay soil. There are no prominent geologic features at the well site. Vegetation in the area consists of sagebrush, native grasses, cedar and pinon trees. No evidence of fauna was observed at the well site.
B. There are no other surface activities in the area. The surface is managed by the Bureau of Land Management.
C. There is a wash 300 feet northeast of the well site. No occupied dwellings, archaeological, historical or cultural sites near the well site.

Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date February 8, 1980



R. W. Schroeder, District Superintendent

X

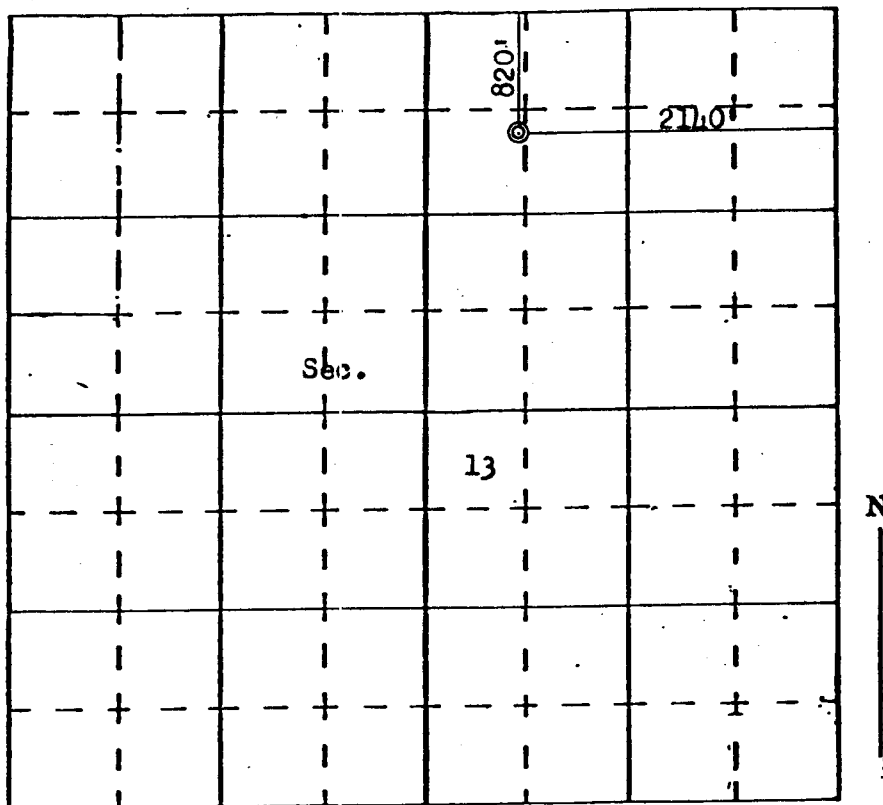
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA-JOHN YAKUSHIK WELL NO. 1

SEC. 13, T. 39S, R. 1E S.L.M.
KANE COUNTY, UTAH

LOCATION 820'FNL 2140'FEL

ELEVATION 5753 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED December 11, 19 79

FARMINGTON, N. M.

To DIVISION OF OIL & GAS CONSERVATION Bldg. _____ Mail Code or Rm. No. _____

To 1588 West North Street Bldg. _____ Mail Code or Rm. No. _____

To Salt Lake City, Utah 84114 Bldg. _____ Mail Code or Rm. No. _____

Location: _____

Route Ticket

Please Handle	
Please Approve	
Please Note and return	
For Your Information	
Please See Me	
Please Advise	
Your File	

Remarks: _____

The attached material consists of only the amended portions of the entire John Yakushik pkg. which you have received already.

From: _____ Date: _____



Amoco Production Company

Petroleum Center Building
501 Airport Drive
Farmington, New Mexico 87401
505-325-8841

R. W. Schroeder
District Superintendent

April 18, 1980

Confidential

Mr. E. W. Gynn
U.S. Geological Survey
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

File: BEF-66-400.1

Dear Mr. Gynn:

Amended APD for the USA-John Yakushik No. 1, Kane County, Utah, Lease U-25534

Our APD of February 8, 1980, for the above well has been amended to include the information requested in your letter of March 26, 1980. We have attached a copy of our amended APD for your approval.

The well's drilling program has been amended to include a revised TD, casing program and coring program. The well's revised TD is the top of the Tropic Shale at 3006'. Surface casing will be set in a 12-1/4" hole at 300', and a 7-7/8" hole will be drilled to the Straight Cliffs at 2006'. The well will then be continuously cored through the Straight Cliffs with a 3-3/4" OD bit to 3006'.

The well is an expendable stratigraphic evaluation conducted solely for the purpose of obtaining geologic data. There will be no in situ formation testing or stimulation of coal beds. After logging operations are completed, the well will be plugged and abandoned and the surface restored to BLM specifications.

If you require additional information please contact Stephen M. Cordz at this office (505-325-8841). This well is TITE HOLE and all information is confidential. Your prompt approval of our APD will be appreciated.

Sincerely,

R. W. Schroeder

SMC/tb

Attachment



IN REPLY REFER TO

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Cedar City District
Kanab Resource Area
320 North First East
Kanab, Utah
84741

April 9, 1980

Mr. Ed Gwynn
United States Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Dear Mr. Gwynn:

I am enclosing a list of surface management stipulations which we recommend be attached to any approval by your office of AMOCO Production Company's application to drill wildcat well John Kakushik No. 1 southeast of Cannonville, Utah. Clearances for archaeology and threatened and endangered species of plants and wildlife are also enclosed.

Sincerely,

Rex Rowley
Area Manager

Enclosures



SURFACE MANAGEMENT STIPULATIONS

Approval of AMOCO Production Company's 12 Point Development Plan for drilling of wildcat well John Kakushik No. 1 located in Section 13, T39S, R1E, SLBM, Kane County, Utah is subject to the following stipulations:

A. General

1. AMOCO shall make every effort to prevent, control, or suppress any fire in the area. Uncontrolled fires must be reported immediately to the Kanab Area Office.
2. All survey monuments, witness corners, reference monuments and bearing trees should be protected against destruction, obliteration or damage. Any markers so affected must be reestablished at the lessee's expense in accordance with accepted BLM survey practices.
3. The lessee will avoid operations when the ground is muddy and/or wet.

B. Site Construction

1. The access road to the site will be limited to 16 feet in width. Vegetation and topsoil that is removed will be stockpiled.
2. Topsoil (the top one foot of soil) will not be removed where it is possible to push off large shrubs and trees and drive over low vegetation. Topsoil that is removed will be stockpiled. Vegetation that is removed will also be stockpiled to be used as mulch.

3. Alluvial material that is dug up to construct the sumps in the creek bottoms for water will be stockpiled in the creek bottom next to the sump.

C. Rehabilitation

1. All waste drilling materials and cuttings will be stored in the reserve pit, fenced, and left to dry up.
2. All pits, sumps, excavations, and drill holes will be backfilled and contoured to conform to the surrounding terrain.
3. The entire site will be restored as nearly as possible to its original condition. Cut and fill slopes should be reduced and graded to conform the site to the adjacent terrain.
4. All disturbed areas, which includes the access road, will be scarified prior to replacing topsoil. Topsoil will be spread over the area so as to conform to the topography.
5. The following seed mixture will be applied to all disturbed areas after replacing topsoil:

<u>Pounds Per Acre</u>	<u>Species</u>
1/4	Sandrop Seed
7	Crested Wheatgrass
1/2	Indian Ricegrass
1/4	Bitterbrush
<u>1/4</u>	Fourwing Saltbush
Total 8 1/4 lbs. per acre	

The seeds should be planted with a grassland drill in rows 7 to 14 inches apart in mid summer or fall. The seeds should be covered with 1/4" to 3/4" of topsoil by light discing or chaining. Seeding will be repeated until satisfactory revegetation is accomplished.

6. After seeding, the shrubs and trees that were removed and stock-piled will be used as mulch and can be crushed and scattered over the area disturbed with a dozer.
7. All work that is required to rehabilitate the site should be completed within one month after completion of drilling operations.

UNITED STATES GOVERNMENT

Memorandum

TO : AMOCO - John Yakushik Wildcat Well No. 1 EAR File DATE: March 28, 1980

FROM : Jack Brown - Wildlife Management Biologist

SUBJECT: Impacts on Wildlife

Wildlife within the proposed drill pad site consists of nongame birds and mammals, and reptiles. Small rodents and black-tailed jackrabbits are the major inhabitants of this area. The small area involved by the drill pad in the proposed action will not seriously effect wildlife.

A review of the location and method of water collection reveals no adverse impacts to wildlife, provided the proposed action is followed. Changing the method of water collection could impact wildlife habitat. Unplanned activities which would pollute the water sources would also impact wildlife. Therefore, the drilling operation should be monitored to assure the proposed action is followed.

There will be no effect on any threatened or endangered species of wildlife as none are known to inhabit the affected area.

Jack Brown



5010-110

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-25534

OPERATOR: AMOCO PRODUCTION CO.

WELL NO. 1

LOCATION: S1/4 NW 1/4 NE 1/4 sec. 13, T. 39 S., R. 1 E., SLM

KANE County, UTAH

1. Stratigraphy: SURFACE (+5753') - KAIPAROWITS FM.

994 - (+4772) WAHWEAP - EVIDENTLY THE ALVEX AND
CHRISTENSEN UNITS ARE SUBDIVISIONS
OF THE WAHWEAP SANDSTONE

1844 (+3922) STRAIGHT CLIFFS

1994 TD

2. Fresh Water:

FRESH OR USABLE WATER POSSIBLE TO TD.

3. Leasable Minerals:

PROSPECTIVELY VALUABLE FOR COAL

4. Additional Logs Needed: NO - PROPOSED SUITE SUFFICIENT TO
IDENTIFY STRAIGHT CLIFFS COAL

5. Potential Geologic Hazards: NONE ANTICIPATED

6. References and Remarks: USGS MAP I-744

USGS FILES

Signature:

J. Owen Billingsley

Date:

3-13-80

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. 44-25534 Well No 1

1. The location appears potentially valuable for:

- ☐ strip mining*
- ☒ underground mining** coal
- ☐ has no known potential.

2. The proposed area is

- ☐ under a Federal lease for _____ under the jurisdiction of this office.
- ☒ not under a Federal lease under the jurisdiction of this office.
- ☒ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

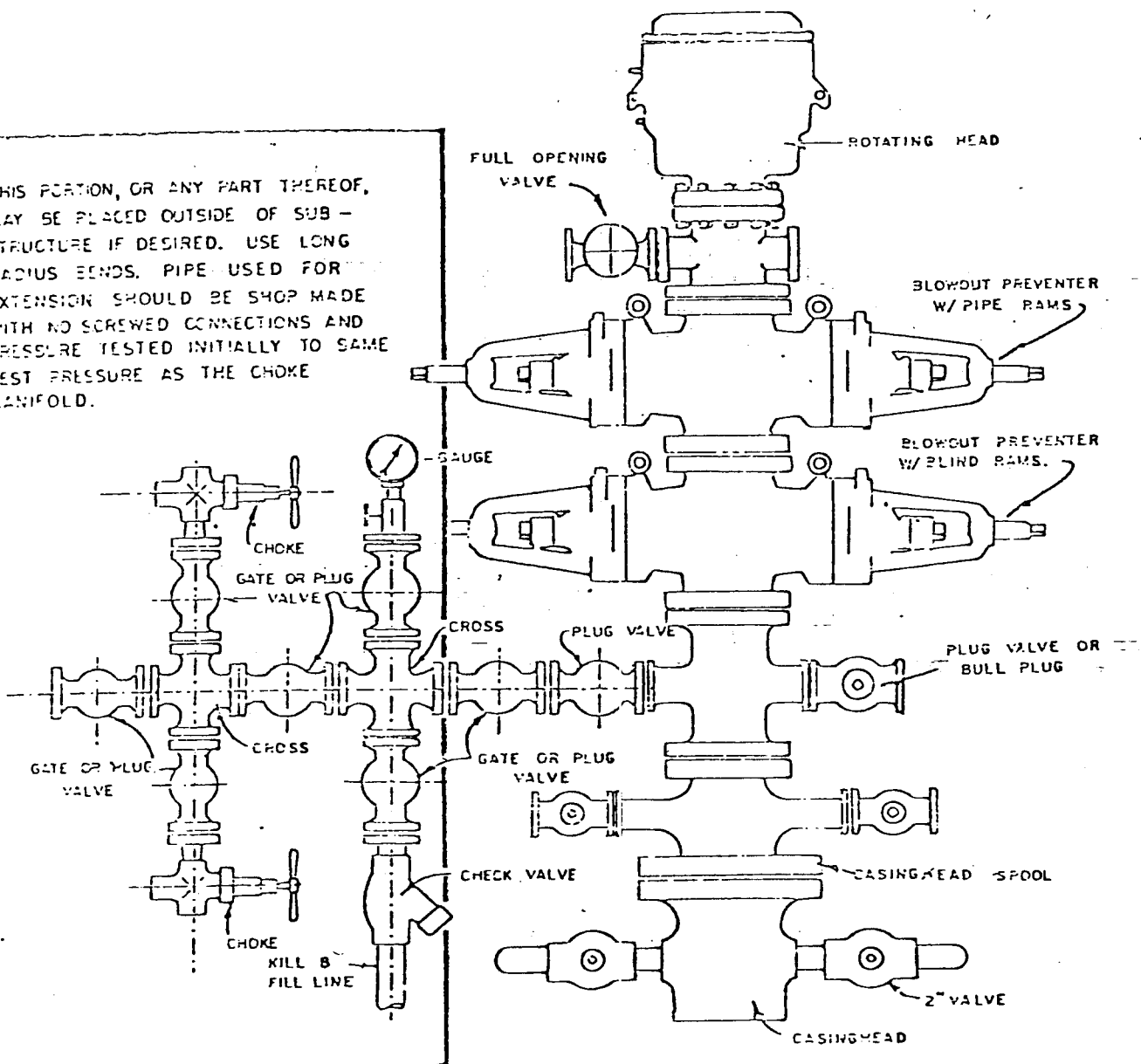
Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed Allen J. Vance

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

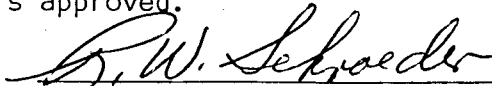
1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build approximately 250 feet of new road 20 feet wide.
3. There are no existing oil and gas wells within a two-mile radius of our proposed well.
4. There are no existing tank batteries or facilities located within a one-mile radius which are operated by Amoco.
5. There is a water hole approximately one mile east on an unknown wash; also, downstream approx. one-half mile this same wash has good possible supply of water by digging a sump hole. Also, 5.3 miles southeast of location on 4-Mile Branch there is a good supply of water that could be used by digging a sump hole and improving seven-tenths mile of road. All above to be approved by Area State Water Engineer, Cedar City, Utah.
6. No construction materials will be hauled in for this location.
7. All waste materials will be stored in a reserve pit (75' X 125') to be fenced and left to dry up or hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and rig will be disposed of in holes in the ground and later filled and covered.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on south side.
10. Restoration of the surface will be accomplished by filling pits and leveling. Any location not used for production equipment and pits will be reseeded to Bureau of Land Management requirements.
11. The general topography is a rolling terrain with sandy clay soil; vegetation consists of sagebrush, cedar and pinon trees.

Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

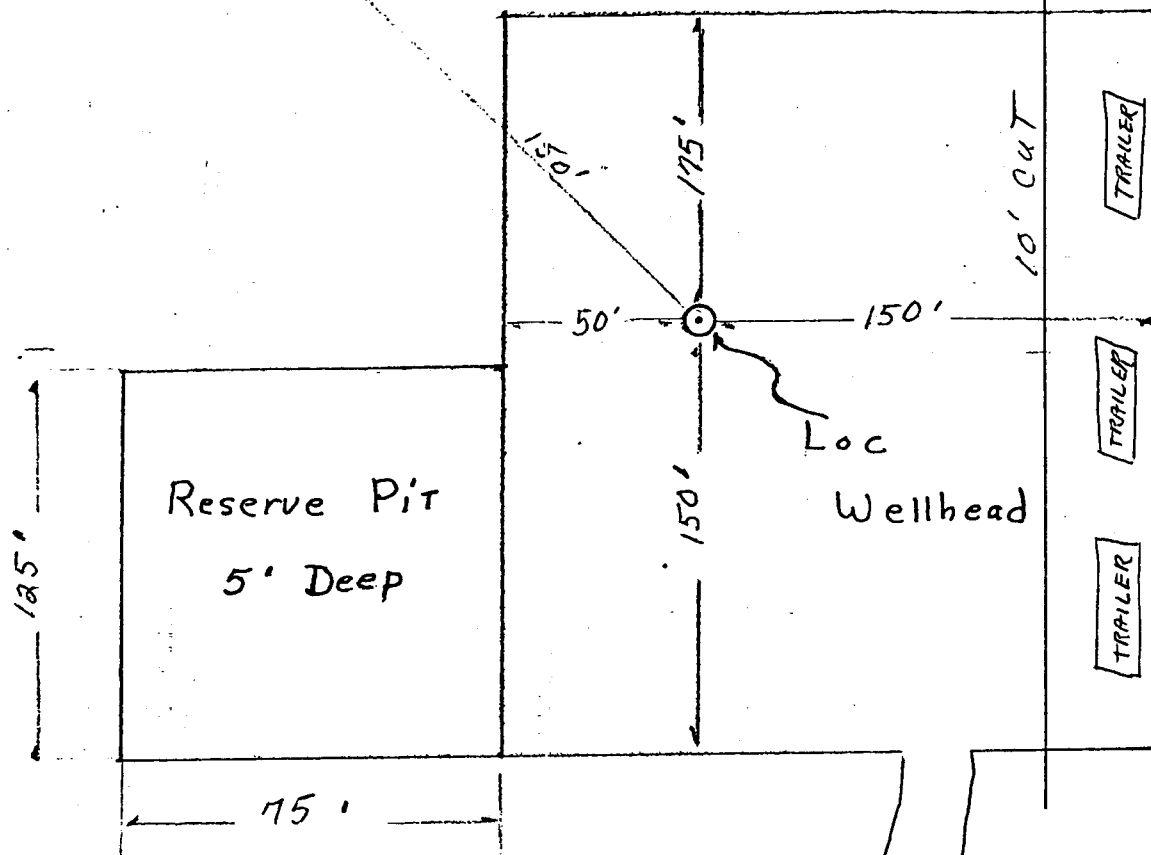
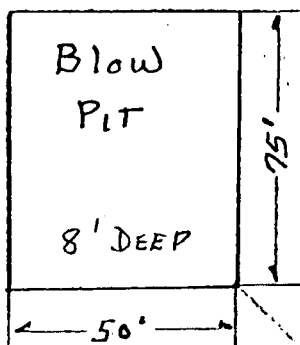
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date December 20, 1979



R. W. Schroeder, District Superintendent

EXISTING ROAD



250' NEW ROAD

Approximately 1.2 Acres

Amoco Production Company

Drilling Location Specs
USA- JOHN YAKUSHIK NO. 1

SCALE: None

DRG.
NO.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☐

OTHER Wildcat

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

820' FNL and 2140' FEL, Section 13, T39S, R1E
At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

17 miles Southeast of Henrieville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

820'

16. NO. OF ACRES IN LEASE

2,560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

Wildcat

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

3006'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5753' Ungraded ground

22. APPROX. DATE WORK WILL START*

As soon as permitted

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	32# H40	300'	300 sx Class B Neat x 2% CaCl2-CIR
7-7/8"	No Casing		2006'	
3-3/4 core hole	No Casing		3006'	

Amoco Production Company proposes to drill the above wildcat well to a depth of 3000' to evaluate the Straight Cliffs formation. The well will be an expendable stratigraphic evaluation conducted solely for the purpose of collecting geological data. No in situ formation testing or stimulation of coal beds will be conducted. After logging operations are completed the well will be plugged and abandoned. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for application to drill and a Multi-Point Surface Use Plan are attached.

This well is being drilled as a TITE HOLE and information is to be kept CONFIDENTIAL

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

B. E. Fackrell

TITLE

District Engineer

DATE

April 18, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

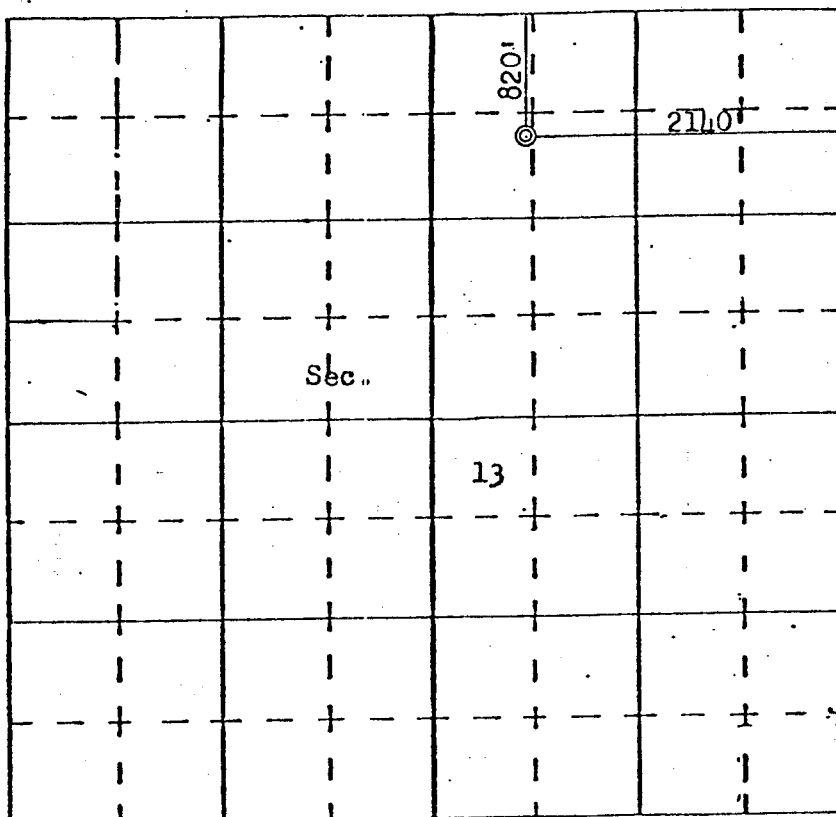
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA-JOHN YAKUSHIK WELL NO. 1

SEC. 13, T. 39S, R. 1E S.L.M.
KANE COUNTY, UTAH

LOCATION 820'FNL 2140'FEL

ELEVATION 5753 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED December 11, 1979

FARMINGTON, N. M.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The geologic name of the surface formation is the Upper Cretaceous Kaiporowits.
2. Estimated tops of important geological markers:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Top Wahweep	1006'	4760'
Top Straight Cliff	2006'	3760'
Top Alvex Coal	2366'	3400'
Top Christensen Coal	2756'	3010'
Top Tropic Shale	3006'	2760'
TD	3006'	

Estimated KB elevation: 5766'.

3. Gas is anticipated in the Alvex formation at 2366' and the Christensen formation at 2766'.
4. The casing program is stated on line 23 of Form 9-331C.
5. A drawing of Amoco's standard blowout preventer is attached and includes the following.
 - A. Blowout preventers and master valve to be fluid operated and all fittings must be in good condition.
 - B. Equipment through which the bit must pass will be at least as large as the inside diameter of the casing that is being drilled through.
 - C. The nipple above the blowout preventer shall be the same size or larger than the BOP being drilled through.
 - D. All fittings are to be flanged and be of API series #300.
 - E. The blowout preventer will be rated at 3000 psi working pressure and 6000 psi test pressure. The blowout preventer will be pressure tested to 1000 psi after surface casing is set.

- F. Operation of the blowout preventer will be tested by closing both pipe and blind rams each trip or on long bit runs the pipe rams will be closed once every 24 hours.
6. The well will be drilled with a 8.5-9.2 lb per gallon low solids non-dispersed fresh water mud system. Approximately 350 to 400 barrels of mud will be maintained in the mud pits dependent on what drilling rig is to be used.
 7. Auxiliary equipment used will be a sub on the rig floor with a full opening valve. The safety valve will be OMSCO or comparable and will be available on the rig floor at all times with the proper connection or sub. The I.D. of the safety valve will be at least as great as the I.D. of the tool joints of the drill pipe or at least as great as the I.D. of the drill collars.
 8. The following open hole logs will be run from T.D. to the base of the surface casing:

Density (long and short spaced), Gamma Ray, Caliper, Spontaneous Potential
Induction Resistivity, Neutron/Neutron Sonic

The well will be continuously cored through the Straight Cliffs formation from 2006' to 3006' approximately. No in situ formation testing or stimulation of coal beds will be conducted. The well will be plugged and abandoned after logging operations are completed.

9. No abnormal pressures, temperatures or potential hazards such as Hydrogen Sulfide are anticipated.
10. Operations should start within several days after being permitted and last approximately 6 weeks.

MULTI-POINT SURFACE USE PLAN

USA - JOHN YAKUSHIK NO. 1
820' FNL & 2140' FEL, SECTION 13, T39S, R1E
KANE COUNTY, UTAH

1. The attached topographic map shows the proposed well site, routes to the well, and access roads. All roads within three miles of the well are a dirt surface and will be maintained in their present condition.
2. The attached surveyor's map shows the necessary access road to be constructed to the well site.
3. To Amoco's knowledge, there are no wells of any type within a two-mile radius of the proposed well.
4. A. Amoco neither owns or operates any tank batteries, production facilities, or any type of pipe lines located within a one-mile radius of the proposed well.
B. No new production facilities are contemplated.
C. All disturbed areas no longer needed for operations will be rehabilitated to Bureau of Land Management requirements.
5. A. Water will be taken from a water hole approximately one mile east on an unknown wash; also from downstream on the same wash approximately one-half mile at "Tommy Water." Also, 5.3 miles southeast of the well at "Fourmile Water" is a good supply of water. All the above sites for water withdrawal have been approved by the Utah State Engineer, and a Temporary Water Use Permit No. 54158 (89-1279) has been issued.
B. The water will be collected in surface sump pits approximately 12' x 12' x 6' in size. The water will be transferred to tank trucks by temporary hoses for transportation to the well site by existing roads. Each truck load will remove 3150 gallons and 80 loads are expected to fill our requirements. All sumps will be rehabilitated to Bureau of Land Management requirements.
C. Not applicable.
6. No construction materials will be hauled in for this location.
7. All waste drilling materials and cuttings will be stored in an unlined reserve pit (75' X 125') to be fenced and left to dry up or be hauled out by trucks and put on existing roads and bladed in, whichever the Bureau of Land Management prefers. Sewage from trailers and the rig will be disposed of in holes in the ground and later filled and covered. The trash pit will be fenced with small mesh wire to contain the refuse until it is buried or burned. When the rig moves out, all non-native materials will be removed from the well site, except for the P&A marker, and the pit will be leveled.
8. There are neither airstrips nor camps in the vicinity.


9. Attached are a plat of the well site and a drawing showing mud tanks, reserve, burn and trash pits, pipe racks, living facilities, rig orientation, parking areas and access roads. All pits will be unlined.
10. Restoration of the surface will be accomplished by filling pits and leveling. After the rig moves off, the surface will be reseeded and rehabilitated to Bureau of Land Management requirements and time tables.
11. A. The general well site topography is gentle rolling terrain with sandy clay soil. There are no prominent geologic features at the well site. Vegetation in the area consists of sagebrush, native grasses, cedar and pinon trees. No evidence of fauna was observed at the well site.
B. There are no other surface activities in the area. The surface is managed by the Bureau of Land Management.
C. There is a wash 300 feet northeast of the well site. No occupied dwellings, archaeological, historical or cultural sites near the well site.

Representatives of the U. S. Geological Survey's Salt Lake Office and the Bureau of Land Management's Kanab Office will inspect the site with Amoco personnel. Cultural resources inspection was conducted by Dr. Richard Thompson, an archaeologist from Cedar City, Utah.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date February 8, 1980


R. W. Schroeder, District Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
 OIL WELL ☐ GAS WELL ☐ OTHER Wildcat SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
 AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
 501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 820' FNL and 2140' FEL, Section 13, T39S, R1E
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 17 miles Southeast of Henrieville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 820'

16. NO. OF ACRES IN LEASE
 2,560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 Wildcat

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 None

19. PROPOSED DEPTH
 3006'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5753' Ungraded ground

22. APPROX. DATE WORK WILL START*
 As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	32# H40	300'	300
7-7/8"	No Casing		2006'	2006
3-3/4 core hole	No Casing		3006'	3006

Amoco Production Company proposes to drill the above wildcat well to a depth of 3000' to evaluate the Straight Cliffs formation. The well will be an expendable stratigraphic evaluation conducted solely for the purpose of collecting geological data. No in situ formation testing or stimulation of coal beds will be conducted. After logging operations are completed the well will be plugged and abandoned. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached. Additional information required by NTL-6 for application to drill and a Multi-Point Surface Use Plan are attached.

This well is being drilled as a TITE HOLE and information is to be kept CONFIDENTIAL

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B. E. Fackrell TITLE District Engineer DATE April 18, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

(ORIG. SGD, T. W. HENRICKS) FOR E. W. GUYNN
 APPROVED BY _____ TITLE _____ DISTRICT ENGINEER

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
 TO OPERATING COPY

RECEIVED
 MAY 23 1980
 DIVISION OF OIL, GAS & MINING
 U.S. GEOLOGICAL SURVEY
 WASHINGTON, D.C. 20508

Utah State Oil & Gas

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date: April 25, 1980

Operator: Amoco Production Company Project or Well Name and No.: 1 (Strat Test)
Location: 820' FNL & 2140' FEL Section 13 Township: 39S Range: 1E
County: Kane State: Utah Field/Unit: Wildcat
Lease No.: U-25534 Permit No.: N/A
Joint Field Inspection Date: March 20, 1980

Prepared By: George Diwachak

Field Inspection Participants, Titles and Organizations:

George Diwachak	Environmental Scientist	U.S.G.S.
Brent Norhtrup	Geologist	BLM
Bill Booker	Recreation Planner	BLM
Arlo Cleaver	Senior Drilling Foreman	Amoco Production Co.,
R.W. Schroeder	District Superintendent	Amoco Production Co.,
Lincoln Lyman	President	Lyman Construction

Related Environmental Documents.

- (1) Final Environmental Statement, Development of Coal Resources in Southern Utah, U.S. Geological Survey.
- (2) Final Environmental Statement, Proposed Kaiparowits Project, Utah, Arizona, Nevada and California, B.L.M.

1j 4/25/80

Noted - G. Diwachak

Admin Compel?
Pool 200 x 350
8' 75 x 125
225' x 350' new access
25 mi. 2000 - upgrade
Sketching
Cons of Arto Pg 788
1-9

DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1 Location State: Utah

County: Kane

820' FNL, 2140' FEL NW 1/4 NE 1/4Section 13, T 39S, R 1E, SL M

2. Surface Ownership Location Public

Access Road: Public

Status of
Reclamation Agreements: Not Applicable.3. Dates APD Filed: February 14, 1980.APD Technically Complete: March 8, 1980.APD Administratively Complete: April 21, 1980.
4. Project Time FrameStarting Date. Upon approval.Duration of Drilling activities. 40 days.*Strat Test - Only -
well will not be produced.
Evaluate & Abd*

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

None known.

6. Nearby pending actions which may affect or be affected by the proposed action:

Access to the location and watersources border the Mud Springs Canyon, Paria Hackberry and Wahweap Initial Wilderness Study Areas. (See attached Map) All but mud Springs Canyon area have been dropped from consideration by the BLM in April, 1980, pending a 90 day public comment period. The Mud Springs Canyon area was reduced in size and portions affected by this proposal have been dropped from consideration. The wellsite itself is not in a Wilderness Study Area.

7. Status of variance requests:

None known.

The following elements of the proposed action would/could result in environmental impacts

1. A drill pad 200' wide x 350' long and a reserve pit 75' x 125' would be constructed. Approximately 225 feet of new access road, averaging 30' in width, would be constructed and approximately 25 miles of existing road would be improved as necessary from a maintained road. 2.5 acres of disturbed surface would be associated with the project.

The existing access road would require upgrading for most of its 22 mile length from Cannonville, Utah. The water haul routes also need upgrading. Maintenance would consist of grading, blading, ditching and widening of few corners. Surface disturbing activities would be minimal.

2. Drilling.
3. Waste disposal.
4. Traffic.
5. Water requirements.
6. Completion.
7. Production facilities and pipeline routes were not applied for in the APD.

Details of the proposed action are described in the Application for Permit to Drill.

*Strat Test
Only
will not be
produced.*

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: The location is in an area of gently rolling, dissected plains within the Kaiparowits Plateau.

1. Other Local Mineral Resources to be Protected: Prospectively valuable coal could be contained in the Straight Cliffs Formation, however the area is not under a Federal coal lease. Cementing off any coal beds encountered would provide protection of a mineral resource.

Information Source: Mineral Evaluation Report, Mining Report.

2. Hazards:

- a. Land Stability. No land instability expected.

Information Source: Field Observation.

b. Subsidence: Fluid withdrawal could cause subsidence, although none is expected.

Information Source: "Environmental Geology" - Keller.

c. Seismicity: Seismic risk for the area is minor to moderate. The operating plans do not account for local seismic hazards.

Information Source: Rocky Mountain Association of Geologists, APD.

d. High Pressure Zones/Blowout Prevention: No high pressure zones are anticipated. Blowout prevention systems are detailed in the 10-Point Plan of the APD.

Information Source: APD.

B. Soils:

1. Soil Character: Soils are sandy clay loam. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted.

Information Source: "Soils of Utah" - Wilson et al., Field Observation.

2. Erosion/Sedimentation: Erosion, sedimentation would increase. Runoff would be medium and sediment production moderately high.

Information Source: "Soils of Utah" - Wilson et al, Field Observation.

C. Air Quality: Wellsite is in a Class II Attainment Area. Machinery and vehicle operation would decrease air quality in immediate area temporarily due to emissions and travel over unpaved roads.

Information Source: Utah State Health Dept., pers comm., Field Observation.

D. Noise Levels: Noise levels would increase temporarily from machinery and vehicle operations, distracting wildlife and livestock in a distributional sense.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: Numerous non-perennial drainages in area. Siltation would increase. Surface water for drilling would be obtained from two location on Tomy Water Creek. State Water Use Permit No. 54158(89-1279) is enclosed. Avoidance of the alternate water source at Fourmile Water would eliminate disturbances to riparian vegetation. Tommy Water Creek water locations are situated near existing roads in gravel stream bed. Excavation of sump pits at locations would cause minimal impacts.

Information Source: APD, Field Observation, BLM.

b. Ground Waters: Fresh or usable water possible to T.D. Commingling of aquifers possible. The proposed casing and cementing program should protect aquifers.

Information Source: Mineral Evaluation Report, APD.

2. Water Quality

a. Surface Waters: The potential for a spill of oil, water and drilling fluids reaching area waterways is possible. Lake Powell is about 40 miles southeast of the test site.

Information Source: Field Observation.

b. Ground Waters: Contamination of ground water by drilling fluids is possible, however the casing program should protect aquifers.

Information Source. APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the BLM on April 11, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation in area is of a mixed salt-desert shrub, pinyon-juniper community. Avoidance of the water source at Fourmile Water would protect existing riparian vegetation.

Information Source: Field Observation, "Desert Plants of Utah" - Anderson.

3. Fauna: Fauna of the area consists predominantly of rodents, raptors and songbirds. Fencing pits would reduce hazards to wildlife.

Information Source: Field Observation, BLM.

G. Land Uses

1. General: The primary land use of the area is grazing. Fencing the reserve pit on three sides during drilling and on the fourth side after the rig moves out would protect livestock from the hazards of an open pit.

Information Source: Field Observation, BLM.

2. Affected Floodplains and/or Wetlands: None.

Information Source: Field Observation.

3. Roadless/Wilderness Area: See nearby Pending Actions Section of this EA. Construction and drilling of this well would have insignificant effects upon the wilderness characteristics of the area.

Information Source: BLM.

H. Aesthetics: The operation would not blend with the surroundings and would present a visual impact until restoration is completed. Painting any permanent equipment a color to blend with the surroundings would reduce visual impacts.

Information Source: Field Observation.

I. Socioeconomics: The effects of one well on local and regional population and economy would be negligible. If a major discovery is made, increased population and economic activity could be expected. Present transportation and pipeline routes would need to expand.

Information Source: Field Observation.

J. Cultural Resources Determination: Based on the formal comments received from the BLM on April 11, 1980, we determine that there would be no effect on cultural resources.

Information Source: BLM.

K. Other: None.

L. Adequacy of Restoration Plans: The restoration plans are inadequate. The location should be reshaped to original contours and not leveled as reported in the APD. Additional rehabilitation/restoration measures have been supplied by the BLM.

Information Source: APD, Field Observation, BLM.

Alternatives to the Proposed Action: (Strat Test)

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

3. Other.

Adverse Environmental Effects:

1. If approved as proposed:

- a. About 2.5 acres of vegetation would be removed, increasing and accelerating erosion potential.
- b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
- c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- d. The potential for fires, leaks, spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in Lake Powell. The potential for pollution to Wahweap Creek would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles. *Strat Test*
- i. The mineability of coal beds in the Straight Cliffs Formation could be affected by drilling and well stimulation. *Strat Test*
- j. Use of the 4-Mile Water alternate water source would destroy riparian vegetation.
- k. The lack of fences around pits would pose a safety and pollution hazard to wildlife and livestock.
- l. Dewatering the reserve pit into access roads could introduce drilling fluids, oil and salt water into area waterways.
- m. Levelling the pad area upon restoration would provide a permanent unusual scar upon the landscape.

2. Conditional Approval:

All adverse impacts described in section one above could occur, except.

a. Cementing any encountered coal beds would reduce possible impacts to ~~minerability~~. *mineability. Strat Test*

b. Avoidance of the water source at Four Mile Water would protect riparian vegetation.

c. Erection of fences around all pits would reduce hazards to wildlife and livestock.

d. Allowing the reserve pit to dry prior to restoration and avoidance of dewatering the pit to the access road would eliminate a potential surface water pollution source.

e. Reshaping the pad area to original contours would leave the landscape in as near original conditions as possible once restoration/reseeding is completed.

f. Painting any permanent equipment a color to blend with the surroundings would reduce visual impacts.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations. *None*

2. See attached BLM Stipulations.

3. Any coal beds encountered greater than 4 feet thick will be isolated with cement from a point 100 feet below the formation to 100 feet above the formation.

4. The water source at Four Mile Water will not be used in order to protect existing riparian vegetation.

5. The reserve pit will be fenced on three sides during drilling and on the fourth side after the rig moves out. Burn and trash pits will also need fences. Fences are to remain until rehabilitation of the pits commences.

6. The reserve pit will not be dewatered into the roadbed and must be allowed to dry prior to restoration.

7. The drill pad area and new access road will be reshaped to original contours and not leveled as reported in the APD.

8. All fresh water zones encountered will be cemented to eliminate inter-aquifer leakage.

9. If production is established all portions of the pad not necessary for activities will be rehabilitated per the enclosed BLM recommendations.

Controversial Issues and Conservation Division Response:

None.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment. (*Strat. Test*)

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

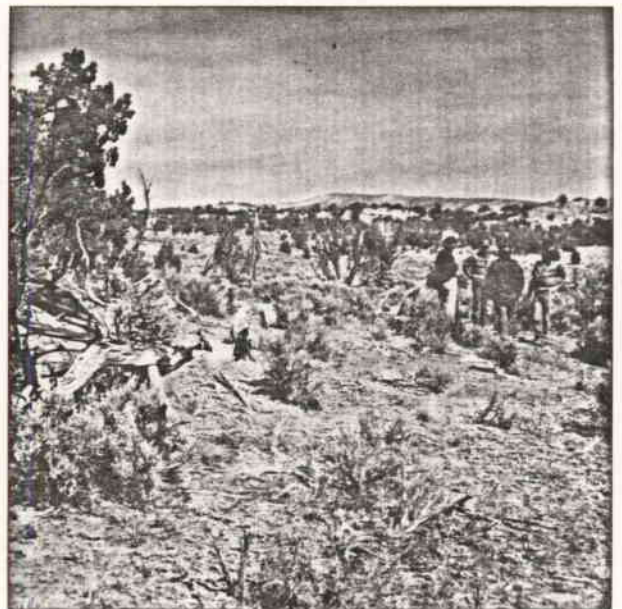
E. W. Long
Signature & Title of Approving Official

DISTRICT ENGINEER

MAY 09 1980
Date



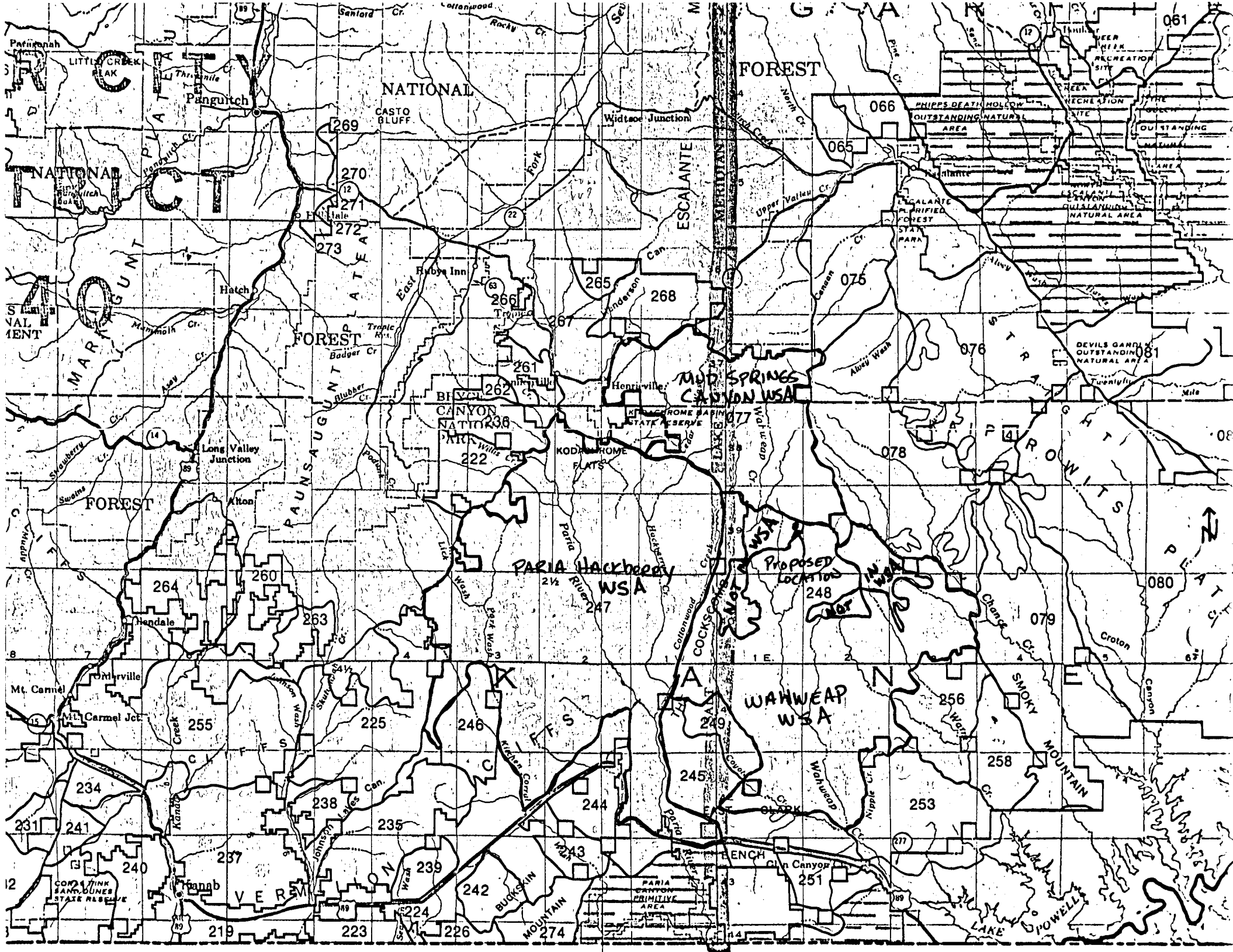
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SELECTED REFERENCES

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- Keller, E.A., 1976, Environmental Geology: C.E. Merril Publishing Company, Columbus, Ohio. 488 p.
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January 5, 1981

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

RE: Well No. USA John Yakushik #1
Sec. 13, T. 39S, R. 1E.,
Kane County, Utah

Gentlemen:

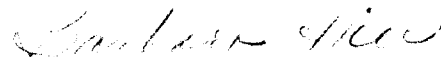
In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING



BARBARA HILL
WELL RECORDS

/bjh:

enclosures: Forms

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. U-25534
2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, N.M. 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 820' FNL x 2140' FEL Section 13, T29S, R1E		8. FARM OR LEASE NAME USA - John Yakushik
14. PERMIT NO.		9. WELL NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5753' GL		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., N., OR BLK. AND SUBVY OR AREA NW/4 NE/4 Section 13, T39S, R1E
		12. COUNTY OR PARISH Kane
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company no longer intends to drill the USA - John Yakushik No. 1. The application to drill was cancelled by the USGS-Salt Lake City, Utah on 9/26/80. We, therefore request approval to clean up and restore this location.

APPROVED BY THE DIVISION
OF OIL GAS AND MINING

DATE: 1-27-81

BY: W. J. Minder

DIVISION OF
OIL GAS & MINING

JAN 28 1981

RECEIVED

Location

Abandoned

18. I hereby certify that the foregoing is true and correct

SIGNED Wayne Peterson

TITLE Dist. Engineer

DATE 1/20/81

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE